

# WISCONSIN STANDARDS for **Family and Consumer Sciences**



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Madison, Wisconsin



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# **Section I**

Wisconsin's Approach to Academic Standards



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### **Foreword**

Career and Technical Education (CTE) has significant value for all students – from introducing them to the world of work to providing specific technical skills. CTE helps students to find relevance, application and understanding of the core subjects.

Career and Technical Education needs to be recognized for the numerous ways it adds value to our students' education and success. As we strive to prepare every Wisconsin student to be college and career ready, it is CTE that provides our greatest opportunity for creating a skilled, knowledgeable and productive future workforce. CTE programs are critical for a student to develop contemporary knowledge and skills for the world of work or for postsecondary coursework. In many schools, CTE also provides articulated courses and work-based learning opportunities, as well as Career and Technical Student Organization connections for students.

To clearly identify what students should know and be able to demonstrate as productive workers, the Wisconsin Department of Public Instruction created the Wisconsin Standards for Family and Consumer Sciences. This resource provides a framework for aligning family and consumer sciences curriculum, instruction and assessment.

The standards within this resource will strengthen CTE's multiple pathways for students to become college and career ready while still in high school. We need to ensure students are exposed to a variety of career development experiences from kindergarten through 12th grade. By adopting the standards within this resource, family and consumer sciences programs will continue offering relevant, rigorous and authentic learning experiences that meet the students' needs and future ambitions. Career and Technical Education should be part of any comprehensive effort to improve student achievement and success while preparing college and career ready graduates. This continued commitment has great economic implications for our future!



Tony Evers, PhD

**State Superintendent** 

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## **Purpose of the Document**

Career and Technical Education (CTE) programs include planned courses of high-quality academic content and technical competencies and skills which focus on programs of study and prepare students for successful college and career readiness.

The aim of this guide is to improve CTE for students and for communities. To assist Wisconsin educators and stakeholders in understanding and implementing the **Wisconsin Standards for Career and Technical Education**, the Wisconsin Department of Public Instruction (DPI) has developed standards in the areas of Agriculture, Food and Natural Resources; Business and Information Technology; Family and Consumer Sciences; Health Science; Marketing, Management and Entrepreneurship; and Technology and Engineering. These materials are intended to provide direction in the development of course offerings and curriculum in school districts across Wisconsin.

This publication provides a vision for student success and guiding principles for teaching and learning. Program leaders will find the guide valuable for making decisions about:

- program structure and integration;
- curriculum redesign;
- staffing and staff development;
- scheduling and student grouping;
- facility organization;
- learning spaces and materials development;
- resource allocation and accountability; and
- collaborative work with other units of the school, district and community.



# A Guide to Wisconsin Career and Technical Education & Family and Consumer Sciences Standards

Wisconsin Career and Technical Education (CTE) programs (Agriculture, Food and Natural Resources; Business and Information Technology; Family and Consumer Sciences; Health Sciences; Marketing, Management and Entrepreneurship; and Technology and Engineering) have a rich history and foundation of preparing young adults for the next steps in their lives—postsecondary education and the world of work. Through ties to business, industry and community, CTE programs provide perspectives and partnerships necessary to educate the entire student. Along with CTE's relationships, the standards outlined in this document set a new direction for the knowledge and skills necessary for successful transition to postsecondary programs leading to and/or direct entry into high-wage, high-demand and highly skilled careers. When paired with the Common Core State Standards, Wisconsin students now have access to increasingly rigorous and relevant content to ensure college and career readiness.

Each set of Career and Technical Education standards contains two distinct sections:

- 1. Wisconsin Common Career Technical Standards
- 2. Standards for the specific discipline

#### The Shift from Model Academic Standards (1998) to State Standards (2013)

The Model Academic Standards published in 1998 were developed in such a way as to highlight what every student should know and be able to do in a particular content area by the end of grade 4, 8 or 12. In focusing on every student, these standards did not necessarily lend themselves to providing a proficiency level or mastery of industry expectations in a specific career pathway particularly for the purpose of career and technical education.

This new set of standards provides CTE programs an opportunity to develop a single course for exploring a career pathway; as well as developing programs and pathways which include a sequence of courses that have an expectation of proficiency and mastery of skills for students who concentrate in CTE. These standards also serve as a framework to align existing course content to identify gaps and inform curricular decisions. However, the full scope of a set of standards should not be used as a measure of a course or program's completeness. Rather, distinctive conversations and informed decisions with involvement of multiple stakeholders, including business/industry and postsecondary representation, should be made regarding what is and what is not covered in a course, a sequence of courses or a program. Where one district may focus, due to local and community needs or other influences, on a single pathway, another may fully develop multiple pathways. These standards provide a foundation for a variety of applications in each of Wisconsin's districts.

The standards also shift from looking at knowledge and skills acquired by the end of certain grade levels to grade bands of knowledge and skills that should be acquired during a student's route through each level of their education. Grade bands of PK-5, 6-8 and 9-12 align to typical elementary, middle and high school levels.

- Grade band PK-5 performance indicators represent knowledge and skills that should be integrated throughout the elementary curriculum. Career
  and technical education teachers in districts are an excellent resource to assist in the development of curriculum and activities.
- Career and technical education should be part of the core curriculum for all middle school students. Awareness, exploration and building foundational skills for career pathways occur in middle school. The performance indicators in grade band 6-8 showcase these foundational skills with an emphasis on career development.
- Career and technical education at the high school level must go beyond awareness and exploration. Students should be developing specific knowledge and skills that are transferrable to other coursework, a job-site or postsecondary options. Performance indicators for grades 9-12 align specifically to industry standards and expectations for career clusters and pathways.



#### **Common Career Technical Standards**

In working with business, industry and education professionals from around the state in the development of standards for each of the individual CTE areas, discussions around common elements, skills, knowledge and dispositions led to the identification of a set of **Wisconsin Common Career Technical Standards**. At relatively the same time, national level conversations were also taking place. As part of the Common Career Technical Core outlined by the National Association of State Directors of Career and Technical Education Consortium (NASDCTEC), a set of Career Ready Practices emerged. These Career Ready Practices can easily be seen within the **Wisconsin Common Career Technical Standards**.

#### **Standards for Family and Consumer Sciences**

The learning priorities and performance indicators contained within each set of discipline standards consists of knowledge and skills specific to the respective disciplines and their related jobs and careers. These are, of course, critical as students develop and pursue their career goals.

The educators and stakeholders writing the **Wisconsin Standards for Family and Consumer Sciences** took direction from many resources including, but not limited to:

- Career Clusters Knowledge and Skill Statements
- American Association of Family and Consumer Sciences
- National Career Development Guidelines
- National Association of State Administrators of Family and Consumer Sciences
- National Council for Economic Education Standards
- National Restaurant Association Education Foundation-ProStart
- Financial Education and Family Economics (FEFE)
- National Endowment for Financial Education (NEFE)
- Mid-continent Research for Research and Learning (McRel)



## **Aligning for Student Success**

To build and sustain schools that support every student in achieving success, educators must work together with families, community members and business partners to connect the most promising practices in the most meaningful contexts. Currently, major statewide initiatives focus on high school graduation, Response to Intervention (Rtl) and the Common Core State Standards for English Language Arts, Disciplinary Literacy and Mathematics. Now the release of the Wisconsin Standards for Career and Technical Education brings to light another set of important academic standards for school districts to implement. While these initiatives are often viewed as separate efforts, each of them is connected to a larger vision of every child graduating college and career ready. The graphic below illustrates how these initiatives function together for a common purpose. Here, the vision and set of guiding principles form the foundation for building a supportive process for teaching and learning rigorous and relevant content. The following sections articulate this integrated approach to increasing student success in Wisconsin schools and communities.

#### Relationship Between Vision, Principles, Process, Content



#### A Vision: Every Child a Graduate

In Wisconsin, we are committed to ensuring every child is a graduate who has successfully completed a rigorous, meaningful, 21st century education that will prepare him or her for careers, college and citizenship. Though our public education system continues to earn nation-leading graduation rates, a fact we can be proud of, one in ten students drop out of school, achievement gaps are too large and overall achievement could be even higher. This vision for every child a graduate guides our beliefs and approaches to education in Wisconsin.

#### **Guided By Principles**

All educational initiatives are guided and impacted by important and often unstated attitudes or principles for teaching and learning. *The Guiding Principles for Teaching and Learning* emerge from research and provide the touchstone for practices that truly affect the vision of every child a graduate prepared for college and career. When made transparent, these principles inform what happens in the classroom, direct the implementation and evaluation of programs and most importantly, remind us of our own beliefs and expectations for students.

#### **Ensuring a Process for Student Success**

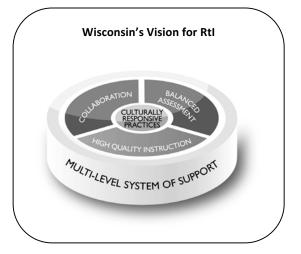
To ensure that every child in Wisconsin graduates prepared for college and career, schools need to provide high quality instruction, balanced assessment and collaboration reflective of culturally responsive practices. The Wisconsin Response to Intervention (RtI) framework helps to organize the components of a system designed to support student learning. Below, the three essential elements of high quality instruction, balanced assessment and collaboration interact within a multi-level system of support to ensure each student receives what he or she needs to access higher levels of academic and behavioral success.

At the school or district level, programs, initiatives and practices related to high quality instruction, balanced assessment and collaboration can be more powerful when organized or braided to function systemically to support all students. The focus must be on a comprehensive approach to student learning.



#### **Connecting to Content: The Common Core State Standards**

Within this vision for increased student success, rigorous, internationally benchmarked academic standards provide the content for high quality curriculum and instruction and for a balanced assessment system aligned to those standards. With the adoption of the CCSS, Wisconsin has the tools to build world-class curriculum, instruction and assessments for greater student learning. The CCSS articulate what we teach so that educators can focus on how instruction can best meet the needs of each student. When implemented within a multi-level system of support, the CCSS can help to ensure that every child will graduate prepared for college, work and a meaningful life.





# **Section II**

Wisconsin's Approach to Career and Technical Education and Family and Consumer Sciences



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## What is Contemporary Career and Technical Education?

There are multiple components to consider when developing contemporary Career and Technical Education (CTE) programs. The standards outlined in this document provide an important foundation to prepare individuals for a wide range of careers. Effective CTE programs are dynamic and require utilization of varied resources and involvement from multiple stakeholders. The discussion that follows highlights the multi-faceted nature of CTE and outlines the critical components that drive the development of effective CTE programs.

#### A National Vision for CTE

The National Association of State Directors of Career and Technical Education Consortium (NASDCTEc) has identified five guiding principles that should drive the development of quality CTE programs. Wisconsin supports these principles as spelled out in the NASDCTEc's *Reflect, Transform, Lead: A New Vision for Career and Technical Education*. These principles provide that Career and Technical Education is:

- critical to ensuring that the United States leads in global competitiveness;
- actively partnering with employers to design and provide high-quality, dynamic programs;
- preparing students to succeed in further education and careers;
- delivered through comprehensive programs of study aligned to The National Career Clusters framework; and
- a results-driven system that demonstrates a positive return on investment.

#### CTE in Wisconsin

Career and Technical Education is both a collection of educational programs or content areas as well as a system of preparing students to be career and college ready. Contemporary CTE programs are delivered primarily through six specific content areas; these include:

- Agriculture, Food and Natural Resources
- Business and Information Technology
- Family and Consumer Sciences
- Health Science
- Marketing, Management and Entrepreneurship
- Technology and Engineering

Not all Wisconsin school districts offer programs in all of these content areas, but all should be offering CTE through a systemic approach that prepares students to be college and career ready.

At the elementary level, CTE content and concepts should be integrated throughout the curriculum. Teachers can effectively use CTE concepts in instruction and activities to develop foundational skills and also create a connection to the world of work. At the middle and high school levels, all students should have access to CTE courses and programs while also participating in activities prescribed by the Wisconsin Comprehensive School Counseling Model. High quality CTE programs incorporate rigorous academic and technical standards, as well as critical workplace skills – such as problem solving, communication and teamwork – to ensure career and college success for its students. The Programs of Study components provide a framework for building and maintaining a high quality, contemporary CTE program, but one can also recognize such quality programs by the presence of three distinct and crucial elements – rigorous academics and technical skill attainment, work-based learning and Career and Technical Student Organizations (CTSOs). The diagram and description that follows on the next page illustrates the quality components of Career and Technical Education programs.



#### **Rigorous Academics and Technical Skill Attainment**

CTE programs prepare students for high-skill, family-sustaining jobs that typically require high levels of core academic skills as well as various technical skills. Consequently, CTE students must be held to high academic standards; often this includes course and performance expectations exceeding typical graduation requirements. CTE students benefit from a source of relevance for their academic instruction. They see the connection between their academic knowledge and skill instruction and their future occupational and career goals.

Of course, at the heart of CTE is the attainment of technical skills that are required for potential high-skill, high-wage jobs. Where circumstances and resources allow, CTE programs provide opportunities for high school students to attain the highest level of skills possible within their desired career pathway. This is done through courses taught by high school CTE teachers and/or through partnerships with neighboring districts, employers, technical colleges and postsecondary institutions or other organizations.

Some of the specific means of achieving rigorous academics and technical skill attainment include:

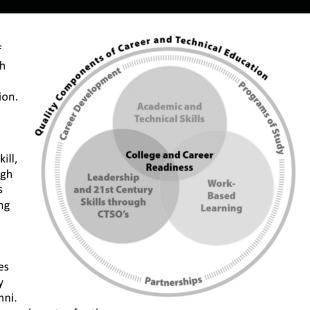
- Partnerships/Advisory Committees These typically include representatives of area businesses
  within the given program's career area as well as representatives from related postsecondary
  training and education programs. They may also include parents, students and program alumni.
  - They can provide recommendations on program changes and improvements, as well as serve as advocates for the program.
- Transcripted or Dual Enrollment Options Opportunities such as these allow students to earn both high school and college credit concurrently.
   Various options are available for CTE students include advanced standing and transcripted coursework taught at the student's high school, as well as Youth Options and Advanced Placement (AP) courses.
- Equivalency Credit Options These provide opportunities for students to earn credits required for high school graduation through CTE courses proven to have sufficient academic content.
- Work-Based Learning See separate section below
- Career and Technical Student Organizations See separate section below

#### **Work-Based Learning**

A vital part of comprehensive career and technical education programs is a structured work-based learning experience. One goal of education is preparing students to successfully enter the workforce. The best way to achieve this goal is for students to spend time in a work setting. Many factors will influence the work-based learning options that can be offered.

Work Place Visits, Employer/Employee Dialogues and Job Shadowing – At the very least, students should participate in work place visits and tours as well as hear presentations and have a dialogue with employers and employees to see how their school-based learning is relevant to the work place. Job shadowing – during which students spend several hours observing one or more employees at a work place – is an even better way to expose students to the work place.

Paid Work Experience – Ideally, students will have opportunities for paid work experience in a job related to their program of study and connected with one or more courses in which the student is currently enrolled. Such experiences should include a training agreement that spells out the expectations for everyone involved including the student, employer, teacher and parents. One of the critical elements of the training agreement is a list of the skills and knowledge the student is expected to develop through their paid work experience. Examples of structured, existing work experience programs in Wisconsin are the Employability Skills Certificate, State Certified Skills Coop programs and Youth Apprenticeship.





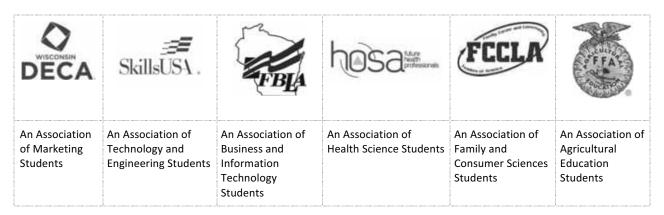
**Leadership Certificate** – An option for many students includes the Wisconsin Youth Leadership Certificate. This certificate is comprised of leadership skills and attitudes that are honed through community and school volunteer or service experiences, leadership positions and volunteer or unpaid workplace encounters.

The more time students spend in the workplace and the broader the experiences, the better prepared they will be. These students will also be better prepared to plan and make decisions about their futures. Work-based learning allows students to put into action the knowledge and skills learned at school.

#### **Career and Technical Student Organizations**

Career and Technical Student Organizations (CTSOs) are the third critical element found in the best contemporary CTE programs. Through CTSOs, students match their skill level against those of other students and established industry standards. In addition, CTSOs allow students to develop civic responsibility, leadership and 21<sup>st</sup> century skills.

Wisconsin has six state and nationally recognized CTSOs that are intra-curricular in that they are connected directly to the classroom through curriculum, activities and community resources. All CTSOs include leadership development elements and competitive events where students demonstrate technical and leadership skills. CTSOs prepare young people to become productive citizens and leaders in their communities and their careers. This is done through school activities as well as regional, state and national leadership conferences and competitions. Students grow and develop through these events and receive recognition for the work they have done and the skills they have developed. CTSOs provide an exceptional extension of CTE instruction. Wisconsin's recognized CTSOs include:



#### The Powerful Outcomes of Quality CTE

Beyond the technical knowledge and skills developed by CTE students, the overall outcomes of students who have enrolled in a CTE course – and in particular students who have taken a sequence of courses in a CTE program of study (called CTE concentrators) – are exceptionally positive. Approximately two-thirds of Wisconsin students have taken at least one CTE course. These students have a higher graduation rate (84.2%) than students who have not taken a CTE course (81.8%). CTE concentrators have an even higher graduation rate (95.7%). In addition, within a year after graduation, CTE concentrators report overwhelming positive outcomes with approximately 95% either working, attending postsecondary education or engaged in training programs.\*



#### CTE and Programs of Study – Expanding Student Opportunities

Such positive outcomes as those noted show how CTE programs expand student opportunities. To support quality CTE programs, it is critical to foster partnerships, implement Programs of Study and promote career development through academic and career planning. CTE students develop a strong base of academic knowledge and skills that better prepare them to enter nearly any postsecondary program and pursue any career pathway compared to students who have not taken CTE courses. The relevance created by CTE and programs of study opens up additional opportunities and prepares students to pursue those opportunities when they graduate from high school. Students who select and pursue a program of study through CTE, based on identified career goals, will be in the best position for all job and career opportunities that arise in their future, including those they have never considered or those not yet in existence. *Quality CTE programs are at the forefront of preparing college and career ready graduates.* 

<sup>\*</sup>Statistics from 2011 Wisconsin Career and Technical Education Enrollment Report (CTEERS) data.



# **Delivering Career and Technical Education through Career Clusters and Pathways**

#### **Career Clusters Framework**

One of the keys to improving student achievement is providing students with relevant contexts for studying and learning. Career Clusters do exactly this by linking school-based learning with the knowledge and skills required for success in the workplace. The National Career Clusters Framework was developed by the National Association of State Directors for Career and Technical Education Consortium (NASDCTEc). This framework is comprised of 16 Career Clusters and related 79 Career Pathways to help students of all ages explore different career options and better prepare for further education and career. Each Career Cluster represents a distinct grouping of occupations and industries based on the knowledge and skills they require. They provide an important organizing tool for schools to develop more effective programs of study (POS) and curriculum.

#### CTE is delivered through comprehensive programs of study aligned to the National Career Clusters framework

"Programs of Study aligned to the National Career Clusters framework...should be the method of delivery of all CTE. A rigorous and comprehensive program of study delivered by qualified instructors is a structured sequence of academic and CTE courses that leads to a postsecondary credential. We must be willing to take bold steps necessary to jumpstart dramatic change in our nation's education and workforce preparation systems. The dichotomous silos of academics versus CTE must be eliminated and their supporting infrastructures must be re-imagined to meet the needs of the economy. As the lines of economies blur, so too must the lines that currently separate CTE and academic education."

~Reflect, Transform, Lead: A New Vision for Career and Technical Education, NASDCTEc

In Wisconsin, the Career Clusters and Pathways have been embraced by CTE programs to provide a context for learning the skills specific to a career. Furthermore, the nationally recognized 10 components framework (see the Wisconsin Program of Study Implementation Guide for details) delineates promising practices necessary to fully implement programs of study. Programs of Study are designed to produce higher levels of achievement in a number of measurable arenas, including academic and technical attainment, high school completion, postsecondary transitions to career and education and attainment of a formal postsecondary credential. They also contribute to increased student proficiency in vital areas such as creativity and innovation, critical thinking and problem solving.

#### **Delivering CTE through Career Clusters**

Delivering CTE through Career Clusters and Pathways means acknowledging three sets of standards (nationally-developed **Common Career Technical Core, Wisconsin Common Career Technical Standards and the Wisconsin Standards for Career and Technical Education**), their relationship to each other and how they can be used collectively to deliver quality instruction. It means shifting the way we approach curriculum and instruction to allow for a strategic approach for implementing these standards in a school or district. This section will outline the relationship that exists between these standards.

In our ever-changing society, many CTE programs are transitioning from helping students prepare for an entry-level job to helping students prepare for a career. As part of that transition, national organizations, such as the NASDCTEc, individual states and even industry-based organizations, have created different sets of standards for student learning in CTE programs. The result is an assortment of standards that vary in quality and specificity from one state to the next. In response, Wisconsin has made a concerted effort to outline these standards and their use for educators as they develop curriculum and programs of study.

Educating students is about the preparation for postsecondary options along with transferable skills that balance current business and industry needs and future career trends. CTE brings students, educators and employers together to develop and strengthen the relationship between what is being taught in the classroom and its application in the workplace. Having a skilled workforce and a vibrant economy depends on CTE programs that can deliver high quality



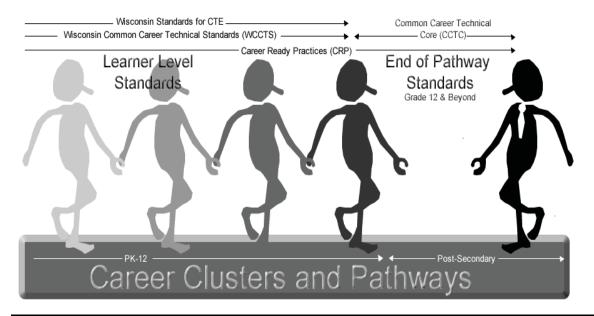
education and training. Because of this, understanding each of the following sets of standards and how they can impact classroom instruction is imperative and will need to be a priority for Wisconsin's CTE educators.

#### **Common Career Technical Core**

Recognizing the need for more consistency in today's global marketplace, in the spring of 2010, NASDCTEc united around a vision to develop a shared set of standards that meet a quality benchmark for students in CTE programs, regardless of where they live or which delivery system they use. The Common Career Technical Core (CCTC) has been developed to align with other college and career ready standards efforts, such as the Common Core State Standards in English Language Arts and Mathematics, while also articulating industry expectations for each of the 16 Career Clusters. The CCTC begins with a set of overarching Career Ready Practices (CRP) that apply to all programs of study. The Career Ready Practices include 12 statements that address the knowledge, skills and dispositions that are important to becoming career ready.

While the Common Core State Standards for English Language Arts and Mathematics define the academic knowledge and skills students need to succeed, there are additional standards that individuals must achieve if they are to be truly career ready. For example, employability skills such as team work and time management, as well as the career specific skills, have not been referenced in the Common Core State Standards. These are skills that individuals must possess in order to be successful in the workplace. These skills make up the **Career Ready Practices** outlined in the CCTC.

The nationally-developed **Common Career Technical Core** contains standards developed for each cluster and pathway. These standards are meant to showcase the knowledge and skills students should have at the **end of the pathway.** These standards provide a mechanism for districts and states to collaborate to provide seamless educational opportunities for students across a **program of study** beginning at the secondary level. Most programs of study will require postsecondary or industry-developed skills beyond what is provided at the secondary level.



As depicted in this graphic, there is a continuum or progression that students travel in their PK-12 career. The path begins with learner-level standards such as the Wisconsin Common Career Technical Standards and the Wisconsin Standards for CTE. As students graduate from high school and move seamlessly into postsecondary options, the focus moves to the end-of-pathway standards such as the Common Career Technical Core (CCTC-national). The Career Ready Practices (CRP-national) act as overarching concepts that students need to know and be able to do throughout their educational experiences.



#### **Wisconsin Common Career Technical Standards**

The development of the Wisconsin Common Career Technical Standards (WCCTS) occurred at the state level at the same time as the national Common Career Technical Core (CCTC). The Wisconsin standards writing teams identified six areas that have been further developed into standards that should be addressed across all six CTE content areas. These standard areas are Career Development; Creativity, Critical Thinking, Communication and Collaboration; Environment, Health and Safety; Global and Cultural Awareness; Information, Media and Technology; and Leadership. The intended outcome of the WCCTS revolves around creating a set of standards that transcend CTE across the state and across all CTE content areas. To read more about the WCCTS, see Wisconsin's Approach to Common Career Technical Standards in Section III of this document. The WCCTS, along with the Wisconsin Standards for CTE form a strong foundation by which students move toward the completion of a program of study. The WCCTS and the Career Ready Practices in the CCTC correlate as shown below:

6 Wisconsin Common Career Technical Standards*					
Career Development Has a focus on personal and social, academic, career content and employability skills	Creativity, Critical Thinking, Communication and Collaboration  Has a focus on creativity and innovative problem solving, critical thinking used to formulate and defend judgments, to communicate and collaborate to accomplish tasks and develop solutions	Environment, Health & Safety  Has a focus on interrelationships of health, safety and environmental systems and the impacts of these systems on organizational performance for continuous improvement	Global & Cultural Awareness Has a focus on solutions and initiatives related to global issues and the benefits of working in diverse settings on diverse teams	Information, Media and Technology Has a focus on information and media literacy to improve productivity, solve problems and create opportunities	Leadership Has a focus on applying leadership skills in real- world, family, community and business and industry applications
		12 Career Ready	Practices**		
Attend to personal health and financial well-being	Apply appropriate academic and technical skills	Consider environmental, social and economic impacts of decisions	Work productively in teams while using cultural global competence	Employ valid and reliable research strategies	Act as a responsible and contributing citizen and employee
Plan education and career paths aligned to personal goals	Communicate clearly and effectively with reason			Use technology to enhance productivity	Model integrity, ethical leadership and effective management
	Demonstrate creativity and innovation				
*Coo Costion III	Utilize critical thinking to make sense of problems and preserve in solving them				

<sup>\*</sup>See Section III

#### Wisconsin Standards for Career and Technical Education (CTE)

The **Wisconsin Standards for Career and Technical Education** are sets of standards in each of the six content areas of Agriculture, Food and Natural Resources; Business and Information Technology; Family and Consumer Sciences; Health Science; Marketing, Management and Entrepreneurship; and Technology and Engineering. The **Wisconsin Standards for CTE** are written at the **learner level** and provide instruction and assessment at the PK-12 level, that, when coupled with postsecondary education and training leads to the mastery of end-of-pathway standards. Therefore, the **Wisconsin Standards for CTE** align to **Career Clusters and Pathways** and provide an excellent foundation for students **toward meeting the end-of-pathway** expectations.

<sup>\*\*</sup>See http://www.careertech.org/career technical-education/cctc/



#### In Summary

Career Clusters and Pathways provide an organizational structure for developing Programs of Study while building connections to current labor market information and future workforce demands. As noted previously, Programs of Study used within CTE help to create relevance for students in all subject areas. This relevance translates into improved student engagement in the learning process and more in-depth comprehension and skill development. Further, the Wisconsin Common Career Technical Standards (WCCTS) and the Career Ready Practices serve as the foundation for career readiness that ensures students have flexibility to change career paths as their interests, passions and circumstances change while considering changes in the current and projected job market. In our dynamic and unpredictable world, Career Clusters and Pathways, along with Wisconsin Standards for CTE to include the WCCTS, provide a measure of stability and certainty on which to build a successful future.



# The Importance of Career and Technical Education

By meeting the current needs and anticipating the future demands of the economy, CTE is critical to our nation's economic success.† Quality CTE programs have planned course sequences of high-quality academic core content and technical skills that provide students with skills necessary for successful transition to postsecondary education or work in addition to a desire for life-long learning in global society.

CTE has grown and evolved to become a focus in schools, workforce and government. The importance and need for career and technical education in our society should be at the forefront of career decision making for the following reasons:

- CTE organizes both academics and career education into a practical program for workforce preparation, elevating the level of rigorous, challenging and applicable coursework leading to more informed preparation.
- CTE in schools promotes the wide variety of postsecondary options to help individuals choose and recognize pathways that will provide the most successful level and type of training for their future goals in postsecondary education, military or work, while understanding the need for lifelong learning and career development.
- CTE provides opportunities to develop 21<sup>st</sup> century and employability skills, exposure to work and mentoring from employers and connections with postsecondary education.
- CTE creates a positive, thoughtful learning environment for self-discovery, innovation and leadership to more lifelong career satisfaction and success.
- CTE recognizes the diverse needs, behaviors, backgrounds, environments and preferences of students by creating an approach for individual guidance and preparation for goals, plans and dreams.
- CTE is dynamic, flexible and responsive to the changes and advances of technology, education, the workforce and the economy by incorporating methods, ideas and resources to keep CTE relevant and contemporary.

CTE has a positive impact on student achievement and transitions. Programs help students find their passion, boost their confidence and empower them to succeed. Because CTE demonstrates a positive return on investment, CTE is a trusted, long-standing partner with the employer community.†

<sup>† &</sup>quot;Reflect, Transform, Lead: A New Vision for Career Technical Education." National Association of State Directors of Career Technical Education Consortium (NASDCTEc), 2010.



# The Importance of Family and Consumer Sciences in Wisconsin and our communities

Family and Consumer Sciences is a field of knowledge concerned with preparing people for independence, family, employment and life by applying knowledge from a variety of educational disciplines. Courses are designed to develop the total well-being of the students, empowering them to become healthy, well adjusted, self-confident, productive individuals, family members and employees.

#### Family and Consumer Sciences is relevant and engaging

In order to enhance individuals and their families, Family and Consumer Sciences programs are supplemented and revised to meet societal changes. All students should be equipped with the life skills necessary to improve the quality of the physical, psychological and social aspects of life for themselves and others. Knowledge and skills from Family and Consumer Sciences are needed for today and in the future in order to lead a balanced life.

#### Family and Consumer Sciences is important to the economy

Family and Consumer Sciences courses can prepare students for careers including, but not limited to, Child Care and Development, Early Childhood Education, Housing and Home Furnishings, Food Service and Hospitality, Nutrition, Health Related Occupations, Social Work, Fashion Construction and Merchandising and Personal and Family Finance. Thinking creatively, making decisions, relating to and communicating with others and utilizing scientific research and technology are necessary for individuals and workers in an ever-changing global society. £

The ACTE Family and Consumer Sciences Education Division is aligned with the following career clusters:

- Agriculture, Food and Natural Resources
- Architecture and Construction
- Arts, A/V Technology and Communications
- Education and Training
- Finance
- Health Science
- Hospitality and Tourism
- Human Services
- Marketing, Sales and Service
- Science, Technology, Engineering and Mathematics

#### Family and Consumer Sciences prepares for college and careers

Research proves that when one's personal life is in order, work life is affected in a positive manner, which has a direct correlation and impact on all career cluster occupations. Family and Consumer Sciences (FCS) programs approach the 21<sup>st</sup> century skills (communication, collaboration, critical thinking and creativity) in the balance of work and family in the application of the knowledge, skills and dispositions through the family systems of action.

The early child care industry needs to fill 400,000 to 500,000 positions by 2018. Half of the growing CTE programs are related to Early Childhood and Culinary Arts, which are associated with higher than average employment growth. FCS is the only CTE department with a focus upon the Human Services pathways that address essential needs of children and families.π

#### Family and Consumer Sciences goes beyond the classroom

Family and Consumer Sciences provides secondary and postsecondary students the opportunity to explore and prepare for careers in culinary, nutrition, dietetics, education, early childhood, fashion design, interior design, textiles, tourism and hospitality, food science, social services and many human services related careers.



Students in FCS programs are provided with skills, attitudes and behaviors necessary for promoting nutrition and wellness; strengthening the well-being of individuals and families; becoming responsible citizens and wage earners; managing resources and finances; balancing work and family life; preparing for successful life management, employment and career management; and critical and creative thinking skills to address problems.

FCS addresses STEM through the living sciences including: 1) food science and innovation, 2) nutrition and wellness; 3) interior/textiles technologies; 4) environmental practices and 5) early childhood education and parenting, which promotes early STEM skills in children.

#### Family and Consumer Sciences is interdisciplinary and collaborative

The FCS field draws from broad and diverse disciplines to develop and provide the content and programs that help individuals become more effective critical thinkers and problem solvers. Through discovery and delivery of research base knowledge, FCS programs assist individuals and families in the development of essential skills to successfully live and work in a complex world.

#### Family and Consumer Sciences creates students who care

Family and Consumer Sciences makes the connection between the issues of society and the prevention education that FCS programs offers to students. Students see the connection of Family and Consumer Sciences to the career clusters, understand the complexity of addressing the essential needs of children, individuals and families and realize the FCS has the background training to impact behaviors in students today and workforce of tomorrow.

#### In summary

Family and Consumer Sciences education provides the essential life skills to develop healthy individuals who are prepared to meet the needs of their children and/or families or those with whom they work.

£ "Family and Consumer Sciences Education". Gayle Randel, Education Consultant, Family and Consumer Sciences, Kansas Department of Education, 2012. Refer to: http://www.aafcs.org

 $\pi$  "The Impact of Family and Consumer Sciences Education". Gayle Randel, Education Consultant, Family and Consumer Sciences, Kansas Department of Education, 2012. Refer to: http://www.aafcs.org



# **Work-Based Learning in Family and Consumer Sciences Programs**

One of the goals of family and consumer sciences programs is to prepare all students to be college and career ready. Providing work-based learning opportunities is an important step to becoming career ready. Engaging work-based learning experiences allow students to apply knowledge and technical skills to real-world projects and problems alongside professionals. Family and Consumer Sciences students who participate in programs such as the State Certified Skills programs and Youth Apprenticeship programs makes a significant contribution to student's success in life.

Family and consumer sciences students seek a clear connection between their future career(s) and class work. The opportunity to explore and experience the world of work is beneficial to career decision-making. These experiences provide students with a firsthand look at what skills and knowledge are needed to be successful in any chosen industry. Work-based learning is a key to a successful economy.

Some work-based education programs provide an opportunity for students to earn postsecondary credits concurrently while earning high school credit. This may occur through local agreements between a high school and college (such as a technical college or university) or through a more comprehensive agreement at the state or national level.

Today, most career pathways require some form of postsecondary education, whether it is an entry-level job, a management position for a mid-career professional or perhaps even a shift from practicing a profession to teaching others.

A particular job might require a certificate, a two-year degree, a four-year degree, a doctorate or even a handful of courses to hone in on a particular piece of knowledge or a skill. †

#### Wisconsin FCCLA and Work-Based Learning

FCCLA is an integral part of any Family and Consumer Sciences program. Through a proven system of developing leadership skills, positive attitudes and a sense of community pride, FCCLA serves as a vehicle to transition students into careers. The role of FCCLA for students is to expand and/or demonstrate their 21<sup>st</sup> century and technical skills with the classroom and community. FCCLA is embedded into the Family and Consumer Science (FCS) curriculum and provides opportunities for leadership at the local, state and national level are available. Scholarship opportunities, competitive events STAR events and community involvement give students an opportunity for personal and professional growth in Family and Consumer Sciences and related occupations.

#### Work-Based Learning Options and Implementation in Family and Consumer Sciences

#### Job Shadowing

Job shadowing is a career exploration strategy. As such, it is most appropriate at the middle school level. Middle school is the time for students to explore the broad range of occupations so that later on they will be able to narrow their career interests. High school students who have not narrowed their career interests by tenth grade may also find job shadowing to be a useful

activity.

#### Service Learning

Service-learning is a teaching method that engages students in solving problems within their schools and communities as part of a student's academic studies. In Wisconsin, service-learning is defined as "a teaching and learning method which fosters civic responsibility and links classroom learning and applied learning in communities." The strongest service-learning experiences occur when the service is intentionally immersed in ongoing learning and is a natural part of the curriculum that extends into the community.



#### Local Cooperative Education Program

Local Co-op involves paid work for a local credential that adds value for programs. Students can earn a high school credit for co-op experience and possible postsecondary credit. The number of required work hours is determined by the local school district and the program is administered by the local school district. Typically a local co-op is one year in length and can include any Career and Technical Education content areas.

#### School Based Enterprise

School-based enterprises (SBE) are effective educational tools in helping to prepare students for the transition from school to work or college. For many students, they provide the first work experience; for others, they provide an opportunity to build management, supervision and leadership skills. SBE activities help students increase their skills in management, problem solving, business operations, time management and working in teams.

#### Youth Leadership Skill Standards Program

The Youth Leadership Certificate is a set of competencies to recognize a student's mastery and exhibition of leadership skills valued by employers, communities and organizations. The certificate earned by the student will be issued by the State of Wisconsin and becomes a part of the student's portfolio and resume.

#### Employability Skills Certificate Program

The Employability Skills Certificate Program is a set of competencies developed for all students in order to recognize a student's mastery of employability skills valued by employers, to help students explore career interests and to provide a state credential of student mastery.

#### State Certified Cooperative Education Skill Standards Program

Wisconsin's Cooperative Education Skill Standards Certificate Program is designed in partnership with business, industry and labor representatives and educators around the integration of school-based and work-based learning and appropriate career development experiences. The program is designed to provide paid work experience for junior and senior high school students which contribute substantially to their educational and occupational development. Students learn technical tasks and employability skills validated by business and industry representatives in cooperation with high school, technical college and university instructors.

Through Family and Consumer Sciences, Cooperative Education programs offered are Food Services, Child Services and Family and Community Services.

#### Assistant Child Care Teacher Skills Certificate Program

To work as an assistant in a child care center, students can choose the ACCT program. To receive certification as an Assistant Child Care Teacher, student enrollees must be 11<sup>th</sup> or 12<sup>th</sup> graders or at least 17 years of age in the semester of enrollment. Students must also be enrolled in a DPI approved ACCT course taught by a vocationally certified teacher in child services. The student may enroll in a co-operative education skill standards certificate program leading to a DPI certificate as a Child Care Teacher (CCT). Students with an ACCT certificate may work in a child care facility beginning at age 17. Without this certificate individuals are prohibited from working as an ACCT prior to age 18.

#### Infant Toddler Skills Certificate Program

In addition to the ACCT Certification, a student may enroll in the Infant Toddler Certificate (ITC) program. This skills certificate enables students to work in a child care setting with children ages birth to three in a regulated child care setting.



#### Wisconsin Youth Apprenticeship

Wisconsin's Youth Apprenticeship program is a part of a statewide School-to-Work initiative supported by the Wisconsin Department of Workforce Development (DWD). It is designed for high school students who want hands on learning in an occupational area at a worksite along with classroom instruction. The program is for high school juniors and seniors requiring a minimum of 900 hours (450 each year) of paid experience. In mentored on-the-job training, the mentor serves as a guide and sponsor of the Youth Apprentice and encourages the student's progress in the workplace. The DWD issues a Certificate of Occupational Proficiency to students who successfully complete the program.

The Youth Apprenticeship area has several choices for Family and Consumer Sciences students to choose from including; Hospitality, Lodging and Tourism and Nursing and Medical Assistant.

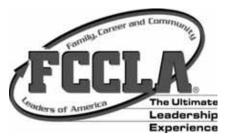
#### In Closing

Career and Technical Education programs use contemporary concepts and strategies to prepare students who are college and career ready. Today's 21<sup>st</sup> century workplace requires people with the leadership, teamwork and communication skills to perform effectively. Work-based learning programs have proven successful in developing these skills in students of all ages and backgrounds.

† http://careerreadynow.org/docs/CRPC\_4pagerB.pdf



# **Career and Technical Student Organizations in Family and Consumer Sciences Programs**



Family, Career and Community Leaders of America (FCCLA) is a dynamic and effective national career and technical student organization for young men and women in Family and Consumer Sciences education in public and private school through grade 12. Everyone is part of a family and FCCLA is the only national career and technical student organization with the family as its central focus. Since 1945, FCCLA members have been making a difference and expanding their leadership skills in their families, careers and communities by addressing personal, family, work and societal issues through Family and Consumer Sciences education or as determined by the Wisconsin Department of Public Instruction (DPI).

FCCLA has more than 219,000 members and nearly 6,500 chapters from 50 state associations, Puerto Rico and the Virgin Islands. The organization has involved more than ten million youth since its founding in 1945. Chapter projects focus on a variety of youth concerns by utilizing the planning process for life planning, goal setting, problem solving, decision making and interpersonal communication in the home and workplace.

#### **Wisconsin FCCLA Mission**

FCCLA promotes personal growth and leadership development through Family and Consumer Sciences education, focusing on the multiple roles of family member, wage earner and community leader, members develop skills for life through character development, creative and critical thinking, interpersonal communication, practical knowledge and career preparation.

The purposes of FCCLA provide opportunities for self-development and preparation for family and community living and for employment. These purposes include:

- To provide opportunities for personal development and preparation for adult life
- To strengthen the family as the basic unit of society
- To encourage democracy through cooperative action in the home and community
- To encourage individual and group involvement in helping achieve global cooperation and harmony
- To promote greater understanding between youth and adults
- To provide opportunities for decision making and for assuming responsibility
- To become aware of the multiple roles of men and women in today's society
- To promote Family and Consumer Sciences education and related occupations

#### **College and Career Ready**

Family and Consumer Sciences provides secondary and postsecondary students the opportunity to explore and prepare for careers in culinary, nutrition, dietetics, education, early childhood, fashion design, interior design, textiles, tourism and hospitality, food science, social services and many human services related careers. These pathways gives enrolled students opportunities to earn college credit and certifications in Early Childhood, Food Science, Dietetics and Nutrition, Food Service, Child Development Associate-(CDA Credentialing); Adult, Youth and Infant CPR and First Aid, ServSafe and National Restaurant Association proficiency certifications achieved in high school Family and Consumer Sciences (FCS) coursework.

FCS courses give student's real life experiences through community service, supervised work experiences through job placements in internships and cooperative education courses. These experiences allow students to explore careers and make informed career choices based experiences while completing high school.



#### **Wisconsin FCCLA Competitive Events**

FCCLA competitive events provide several opportunities for students to gain recognition for their individual, team and chapter activities. Students are encouraged to expand their knowledge and experiences in an area of their interests and build on foundational and specialized skills and abilities through FCCLA competitive STAR events and the Family and Consumer Sciences Knowledge Bowl. Members strive for success as they learn the importance of education, the value of helping others and the power of self-accomplishment.

#### **Leadership Opportunities**

In addition to STAR events, nine national programs further expand leadership skills and knowledge of student members.

- Career Connections-Program explores career pathways and skills for success in families, careers and communities.
- Dynamic Leadership-Program enhances job skills and gain valuable on-site work experience.
- FACTS-Families Acting Through Traffic Safety-Peer education program which assists members in learning about safety through texting and driving campaign to arrive alive and lower the number one cause of death for youth in America.
- Financial Fitness-Program helps members develop skills to make, save and spend their money wisely to become financially fit.
- Power of One-Program gives members the power to make a positive change in their families, careers and communities, one goal at a time through a planning process.
- STOP the Violence-(Students Taking on Prevention)-Program empowers youth with attitudes, skills and resources to recognize, report and reduce youth violence.
- Student Body-Program promotes eating right, being fit and making healthy choices.
- Families First-Program strengthens family relationships through FCCLA's national peer education program, Families First.
- The Japanese Exchange allows students to apply for a scholarship to Japan to experience another culture while living with a host family.
- Community Service Program allows members to make a difference in a community by taking action.

#### **Community Service Opportunities**

The FCCLA Community Service program guides students to develop, plan, carry out and evaluate projects that improve the quality of life in their communities. Community Service helps young people build skills for family, career and community roles; provides youth-centered learning experiences related to Family and Consumer Sciences education; and encourages young people to develop the positive character traits of trustworthiness, respect, responsibility, fairness, caring and citizenship.

#### The Role of FCCLA

Students can expand and/or demonstrate their 21<sup>st</sup> century and technical skills within FCCLA. FCCLA is embedded into the Family and Consumer Sciences curriculum and offers opportunities for leadership at the regional, state and national level. Scholarship opportunities, competitive STAR Events and community involvement give students an opportunity for personal growth, practical knowledge and career development.



# **Section III**

Wisconsin Common Career Technical Standards



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## Wisconsin's Approach to Common Career Technical Standards

With the release of the Wisconsin Standards for Career and Technical Education (CTE), Wisconsin CTE teachers have access to the foundational knowledge and skills needed to educate students for successful entry into hundreds of high-wage, high-demand occupations and careers. Vetted by business, industry and education professionals, these standards guide Wisconsin schools, teachers and community partners toward development and continuous improvement of world class CTE courses and programs.

The learning priorities and performance indicators contained within each set of CTE standards consists of knowledge and skills specific to the respective disciplines and its related jobs and careers. These are, of course, critical as students develop and pursue their career goals. In addition, knowledge and skills exist that are common to the pursuit of jobs and careers in any field. It is this set of common career knowledge and skills that are contained in the *Wisconsin Common Career Technical Standards*.

The Wisconsin Common Career Technical Standards (WCCTS) include the CTE related knowledge and skills that all students should have to be college and career ready and they provide a foundation on which the discipline-specific CTE standards are built. In some cases, discipline-specific standards will be similar to the WCCTS, but those discipline-specific standards will have a depth or nature that is specific to that discipline and its related jobs and careers.

These WCCTS, which are included as an additional section in each of the discipline-specific CTE standards documents, have been developed from a broad collection of potential standards using a "workplace" lens. In other words, when determining common standards for all CTE areas, their relevance to being successful and valued as an employee in a wide range of career clusters and pathways has been considered. From this perspective, six areas for the WCCTS emerged: Creativity, Critical Thinking, Communication and Collaboration; Career Development; Environment, Health and Safety; Global and Cultural Awareness; Information, Media and Technology; and Leadership.

Numerous existing sets of standards and standards-related documents have been used in developing the Wisconsin Common Career Technical Standards. These include:

- 21<sup>st</sup> Century Skills
- Career Cluster Essential Knowledge and Skills Statements
- Wisconsin Employability Skills Certificate
- Wisconsin Youth Leadership Skill Certificate

- National Career Development Association Career Development Standards
- Wisconsin Comprehensive School Counseling Model
- NASDCTEc Common Career Technical Core Initiative

In addition to the Wisconsin Common Career Technical Standards, personal financial literacy and entrepreneurial knowledge and skills are an important part of a student's education. These areas were not included as part of the WCCTS since Wisconsin educators and schools use the Model Academic Standards for Personal Financial Literacy and Wisconsin's Vision for Entrepreneurial Education which adapts the National Content Standards for Entrepreneurs. Educators should reference these two sets of standards for inclusion in CTE curriculum where appropriate.

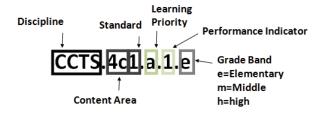
As with all the standards, the Wisconsin Common Career Technical Standards may be taught and integrated through a variety of classes and experiences. Each district, school and program area should determine the means by which students meet these standards. Through the collaboration of multiple stakeholders, these foundational standards will set the stage for high-quality, successful, contemporary CTE courses and programs throughout Wisconsin's PK-12 systems.



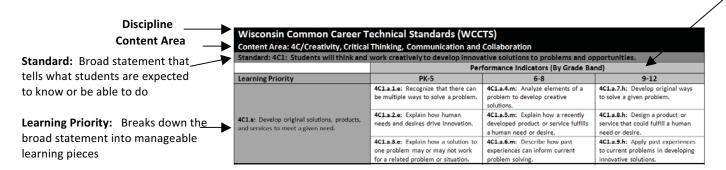
#### Standard Structure

The Wisconsin Standards for Career and Technical Education, including the Wisconsin Common Career Technical Standards, each follow a similar structure.

#### **Standard Coding**



#### **Standard Formatting**



#### **Grade Bands**

Grade bands of PK-5, 6-8 and 9-12 align to typical elementary, middle and high school levels.

- Grade band PK-5 performance indicators represent knowledge and skills that should be integrated throughout the elementary curriculum.
   Career and technical education teachers in districts can be an excellent resource to assist in the development of curriculum and activities.
- Career and technical education should be part of the core curriculum for all middle school students. Awareness, exploration and building
  foundational skills for career pathways occur in middle school. The performance indicators in grade band 6-8 showcase foundational skills
  with an emphasis on career development.
- Career and technical education at the high school level must go beyond awareness and exploration. Students should be developing specific knowledge and skills that are transferrable to other coursework, a job-site or postsecondary options. Performance indicators for grades 9-12 align specifically to industry standards and expectations for career clusters and pathways.

Performance Indicator by Grade Band: Measurable degree to which a standard

has been developed and/or met



Content Area: 4C/Creativity, Critical Thinking, Communication and Collaboration

**Standard: 4C1:** Students will think and work creatively to develop innovative solutions to problems and opportunities.

	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
	<b>4C1.a.1.e:</b> Recognize that there can be multiple ways to solve a problem.	<b>4C1.a.4.m:</b> Analyze elements of a problem to develop creative solutions.	<b>4C1.a.7.h:</b> Develop original ways to solve a given problem.
<b>4C1.a:</b> Develop original solutions, products and services to meet a given need.	<b>4C1.a.2.e:</b> Explain how human needs and desires drive innovation.	<b>4C1.a.5.m:</b> Explain how a recently developed product or service fulfills a human need or desire.	<b>4C1.a.8.h:</b> Design a product or service that could fulfill a human need or desire.
	<b>4C1.a.3.e:</b> Explain how a solution to one problem may or may not work for a related problem or situation.	<b>4C1.a.6.m:</b> Describe how past experiences can inform current problem solving.	<b>4C1.a.9.h:</b> Apply past experiences to current problems in developing innovative solutions.
	<b>4C1.b.1.e:</b> Recognize that an individual's background and experiences influence their perspective of problems and solutions.	<b>4C1.b.4.m:</b> Explain how multiple people can develop better solutions than an individual.	<b>4C1.b.7.h:</b> Incorporate the skills and experiences of others to develop a new solution to a problem.
<b>4C1.b:</b> Work creatively with others to develop solutions, products and services.	<b>4C1.b.2.e:</b> Participate with a group to develop new ideas.	<b>4C1.b.5.m:</b> Explain how multiple people and perspectives can develop better ideas than an individual.	<b>4C1.b.8.h:</b> Work as part of a team to design a product or service that could fulfill a human need or desire.
	<b>4C1.b.3.e:</b> Explain the value of multiple perspectives in solving problems and recognizing opportunities.	<b>4C1.b.6.m:</b> Explain how multiple people and perspectives can improve an existing product or process better than an individual.	<b>4C1.b.9.h:</b> Work as part of a team to improve an existing product or process.



tandard: 4C2: Students will formulate and defend judgments and decisions by employing critical thinking skills.			
	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
	<b>4C2.a.1.e:</b> Differentiate between problems and symptoms.	<b>4C2.a.5.m:</b> Analyze symptoms to identify the root cause of a problem.	<b>4C2.a.11.h:</b> Determine the information needed to address an identified problem.
	<b>4C2.a.2.e:</b> Explain problems, decisions and opportunities faced by individuals and communities.	<b>4C2.a.6.m:</b> Develop multiple resolutions for a given problem, decision or opportunity.	<b>4C2.a.12.h:</b> Contrast the benefits and drawbacks of various proposed resolutions to a given situation.
<b>4C2.a:</b> Develop effective resolutions for a given problem, decision or opportunity using available information.	<b>4C2.a.3.e:</b> Explain the negative aspects of making decisions without adequate information and/or thought.	<b>4C2.a.7.m:</b> Identify problems that became worse due to poorly thought out or poorly informed solutions.	<b>4C2.a.13.h:</b> Predict how an action could result in unintended consequences, both positive and negative.
	<b>4C2.a.4.e:</b> Describe the concept of systems thinking.	<b>4C2.a.8.m:</b> Explain how implementation of a solution or action may affect one or more corresponding systems.	<b>4C2.a.14.h:</b> Analyze the impact of a decision using a systems thinking model.
		<b>4C2.a.9.m:</b> Explain how different resolutions may be appropriate under different circumstances.	<b>4C2.a.15.h:</b> Determine the best resolution for a problem, decision or opportunity based on given criteria.
		<b>4C2.a.10.m:</b> Explain the process for choosing an action or making a decision.	<b>4C2.a.16.h:</b> Defend an action taken or a decision implemented.
<b>4C2.b:</b> Develop and implement a resolution for a new situation using personal knowledge and experience.	<b>4C2.b.1.e:</b> Describe how past experience relates to new situations.	<b>4C2.b.3.m:</b> Analyze problems to determine what past experiences might be related and relevant.	<b>4C2.b.5.h:</b> Apply past experience to develop a course of action for a new situation.
	<b>4C2.b.2.e:</b> Describe how knowledge learned in one class can be used in other classes and situations.	<b>4C2.b.4.m:</b> Analyze a problem to determine how it relates to existing knowledge.	<b>4C2.b.6.h:</b> Use existing knowledge to develop a resolution for a new situation, problem or opportunity.



**Standard: 4C3:** Students will communicate and collaborate with others to accomplish tasks and develop solutions to problems and opportunities.

	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
<b>4C3.a:</b> Communicate thoughts and feelings with others using verbal and non-verbal	<b>4C3.a.1.e:</b> Discuss a shared experience with others.	<b>4C3.a.5.m:</b> Conduct a shared dialogue with others on a common problem or task.	<b>4C3.a.9.h:</b> Develop a mutually acceptable response to a question or problem.
	<b>4C3.a.2.e:</b> Identify a person's emotions based on expressions and body language.	<b>4C3.a.6.m:</b> Predict how a person's emotions may influence his/her communication.	<b>4C3.a.10.h:</b> Distinguish between what a person says and what their expressions and body language indicate.
language.	<b>4C3.a.3.e:</b> Describe various ways people communicate with each other without using words.	<b>4C3.a.7.m:</b> Explore non-verbal and non-written means of communication.	<b>4C3.a.11.h:</b> Communicate effectively in the presence of a language barrier.
	<b>4C3.a.4.e:</b> Demonstrate effective listening skills.	<b>4C3.a.8.m:</b> Implement effective listening skills in resolving a situation.	<b>4C3.a.12.h:</b> Utilize effective listening skills in creating consensus in a group.
	<b>4C3.b.1.e:</b> Describe various ways of generating ideas in a group setting.	<b>4C3.b.4.m:</b> Use idea generating practices as part of a group.	<b>4C3.b.7.h:</b> Participate in group processes to generate consensus.
162 h. Work collaboratively with others	<b>4C3.b.2.e:</b> Complete an assignment as part of a group.	<b>4C3.b.5.m:</b> Describe ways to facilitate group collaboration.	<b>4C3.b.8.h:</b> Lead group processes to generate consensus.
<b>4C3.b:</b> Work collaboratively with others.	<b>4C3.b.3.e:</b> Compare the impact of face-to-face discussion with the use of technology for communication.	<b>4C3.b.6.m:</b> Demonstrate the use of various tools to communicate effectively with an individual or a group.	<b>4C3.b.9.h:</b> Incorporate the use of technology to productively plan, implement and evaluate a solution, process or procedure.
	<b>4C3.c.1.e:</b> Compare and contrast ways of resolving conflicts with another person.	<b>4C3.c.4.m:</b> Resolve a conflict with another person with assistance.	<b>4C3.c.7.h:</b> Resolve conflicts productively with individuals as they arise.
<b>4C3.c:</b> Use interpersonal skills to resolve conflicts with others in an ethical manner.	<b>4C3.c.2.e:</b> Describe ways of resolving conflicts within a team or group.	<b>4C3.c.5.m:</b> Contribute to resolving conflicts that occur within a team or group.	<b>4C3.c.8.h:</b> Lead a team or group through a conflict resolution process to reach a productive outcome.
	<b>4C3.c.3.e:</b> Explain ways in which an act might be considered ethical or unethical.	<b>4C3.c.6.m:</b> Explore the ethical considerations of a current or historical action or decision.	<b>4C3.c.9.h:</b> Defend personal ethics applied to common conflicts that arise during group interactions and team activities.



**Content Area: CD/Career Development** 

Standard: CD1: Students will consider, analyze and apply an awareness of self, identity and culture to identify skills and talents

Standard: CD1: Students will consider,	sider, analyze and apply an awareness of self, identity and culture to identify skills and talents.			
		Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12	
<b>CD1.a:</b> Identify person strengths, aptitudes and passions.	<b>CD1.a.1.e:</b> Identify individual likes and dislikes related to utilizing skills and abilities.	<b>CD1.a.2.m:</b> Assess personal strengths, aptitudes and passions related to potential future careers.	cD1.a.3.h: Evaluate various occupations and career pathways to identify personal, academic and career goals based on personal strengths, aptitudes and passions.	
<b>CD1.b:</b> Demonstrate effective decision-making, problem solving and goal setting.	CD1.b.1.e: Recognize consequences of decisions and choices.  CD1.b.2.e: Define a goal and describe why it is important to have goals.	CD1.b.3.m: Develop effective coping skills for dealing with problems.  CD1.b.4.m: Identify long and short-term goals.	CD1.b.5.h: Use a decision-making and problem-solving model.  CD1.b.6.h: Develop an action plan to set and achieve realistic goals.	
CD1.c: Interact effectively with others in similar and diverse teams.	<b>CD1.c.1.e:</b> Identify when it is appropriate to listen and when it is appropriate to speak.	CD1.c.5.m: Distinguish between appropriate and inappropriate behavior in a team setting.	<b>CD1.c.9.h:</b> Assess cultural differences and work effectively with people from a range of social and cultural backgrounds.	
	<b>CD1.c.2.e:</b> Recognize personal boundaries, rights and privacy needs.	CD1.c.6.m: Conduct oneself in a respectable manner which acknowledges the personal boundaries, rights and privacy of others.	<b>CD1.c.10.h:</b> Critique different ideas and values while leveraging social and cultural differences to increase innovation, new ideas and quality of work.	
	CD1.c.3.e: Demonstrate cooperative behavior in groups.	<b>CD1.c.7.m:</b> Display cooperative behavior and identify personal strengths and assets in groups.	<b>CD1.c.11.h:</b> Evaluate how the personal strengths and assets of others contribute to a cooperative group atmosphere.	
	<b>CD1.c.4.e:</b> Describe what it means to show respect and appreciation for individual and cultural differences.	CD1.c.8.m: Show respect and appreciation for individual and cultural differences in groups.	<b>CD1.c.12.h:</b> Assess how respect and appreciation for individual and cultural differences impacts group processes.	
CD1.d: Apply a range of relevant decision-making strategies.	<b>CD1.d.1.e:</b> Define what a decision is and how decisions can be made.	<b>CD1.d.3.m:</b> Evaluate the positive and negative implications of personal decisions.	<b>CD1.d.5.h:</b> Predict the outcome of various decisions on personal, social and career success.	
	CD1.d.2.e: Demonstrate when, where and how to seek help with solving problems and making decisions.	CD1.d.4.m: Apply decision-making strategies to personal and team interactions.	<b>CD1.d.6.h:</b> Evaluate the impact of personal decision-making strategies on specific outcomes.	



**Standard: CD2:** Students will identify the connection between educational achievement and work opportunities in order to reach personal and career goals.

	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
<b>CD2.a:</b> Apply academic experiences to the world of work, inter-relationships and the community.		cD2.a.1.m: Practice balancing school, studies, co-curricular activities, leisure time and family life.	CD2.a.3.h: Evaluate how performance and connections within the learning community enhance future opportunities.
		CD2.a.2.m: Describe a diverse range of opportunities available beyond high school.	CD2.a.4.h: Determine those opportunities that best support attainment of a specific career goal.
CD2.b: Assess attitudes and skills that contribute to successful learning in school and across the life span.	CD2.b.1.e: Set realistic expectations for work and achievement.	CD2.b.4.m: Assess changes due to influences and shifts in regional, national and global economies related to career opportunities.	the impact of current education, training and work trends on life, learning and career plans.
	CD2.b.2.e: Establish challenging academic goals.	CD2.b.5.m: Apply academic information from a variety of sources to enhance career preparedness and lifelong learning.	CD2.b.8.h: Assess education and training opportunities to acquire new skills necessary for career advancement.
	<b>CD2.b.3.e:</b> Explore local and regional labor market and job growth information.	CD2.b.6.m: Research local and regional labor market and job growth information to analyze career opportunities.	CD2.b.9.h: Analyze local and regional labor market and job growth information to select a career pathway for potential advancement.



Standard: CD3: Students will create and manage a flexible and responsive individualized learning plan to meet their career goals.			
	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
CD3.a: Investigate the world of work in order to gain knowledge of self in order to make informed career decisions.  CD3.b: Examine and evaluate opportunities that could enhance life and career plans and articulate plan to guide decisions and	CD3.a.1.e: Locate, evaluate and interpret career information.	cD3.a.5.m: Demonstrate the ability to use technology to retrieve and manage career information that inspires educational achievement.	CD3.a.10.h: Analyze how career plans may be affected by personal growth, external events and changes in motivations and aspirations.
	<b>CD3.a.2.e:</b> Discuss and explain behaviors and decisions that reflect interests, likes and dislikes.	CD3.a.6.m: Build an ongoing awareness of personal abilities, skills, interests and motivation and determine how these fit with chosen career pathway.	CD3.a.11.h: Apply academic and employment readiness skills in work-based learning situations such as internships, shadowing and/or mentoring experiences.
	<b>CD3.a.3.e:</b> Give examples of positive personal characteristics (e.g., honesty, dependability, responsibility, integrity and loyalty).	CD3.a.7.m: Develop an individual learning plan to enhance educational achievement and attain career goals based on a career pathway.	CD3.a.12.h: Evaluate changes in local, national and global employment trends, societal needs and economic conditions related to career planning.
	CD3.a.4.e: Identify career opportunities of interest; match personal interests and aptitudes.	CD3.a.8.m: Choose career opportunities that appeal to personal career goals.	CD3.a.13.h: Recognize how chance opportunities integrate with learning and career goals.
		<b>CD3.a.9.m:</b> Use assessment results in educational planning including career awareness.	CD3.a.14.h: Implement an individual learning plan to maximize academic ability and achievement.
	<b>CD3.b.1.e:</b> Describe why people work and how aspects of the work environment affect lifestyle.	CD3.b.2.m: Describe educational levels (e.g., work-based learning, certificate, two-year, four-year and professional degrees) and performance skills needed to attain personal and career goals.	CD3.b.4.h: Implement strategies for responding to transition and change with flexibility and adaptability.
actions.		<b>CD3.b.3.m:</b> Demonstrate openness to exploring a wide range of occupations and career pathways.	CD3.b.5.h: Evaluate the relationship between educational achievement and career development.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
CD3.c: Employ career management	CD3.c.1.e: Explain how good nutrition, adequate rest and physical activity affect energy levels and productivity in school and at work.	CD3.c.3.m: Identify work values and needs.	CD3.c.5.h: Determine how principles of equal opportunity, equity, respect, inclusiveness and fairness, affect career planning and management.
strategies to achieve future career success and satisfaction.	cD3.c.2.e: Demonstrate the ability to seek assistance (e.g., with problems at school or work) from appropriate resources, including other people.	CD3.c.4.m: Define adaptability and flexibility in the world of work.	CD3.c.6.h: Discuss how adaptability and flexibility, especially when initiating or responding to change, contributes to career success.
Standard: CD4: Students will identify ar	nd apply employability skills.		
,	<b>CD4.a.1.e:</b> Identify behaviors that demonstrate self-discipline, selfworth, positive attitude and integrity.	<b>CD4.a.3.m:</b> Demonstrate self-discipline, self-worth, positive attitude and integrity.	CD4.a.6.h: Evaluate how self-discipline, self-worth, positive attitude and integrity displayed in a work situation affect employment status.
CD4.a: Identify and demonstrate positive		CD4.a.4.m: Demonstrate flexibility and willingness to learn new knowledge and skills.	CD4.a.7.h: Assess how flexibility and willingness to learn new knowledge and skills affect employment status.
work behaviors and personal qualities needed to be employable.			CD4.a.8.h: Apply communication strategies when adapting to a culturally diverse environment.
	<b>CD4.a.2.e:</b> Describe positive work-qualities typically desired in each of the career cluster's pathways.	<b>CD4.a.5.m:</b> Identify positive workqualities typically desired in each of the career cluster's pathways.	<b>CD4.a.9.h:</b> Use positive workqualities typically desired in each of the career cluster's pathways.
			CD4.a.10.h: Manage work roles and responsibilities to balance them with other life roles and responsibilities.
CD4.b: Demonstrate skills related to seeking	<b>CD4.b.1.e:</b> Identify the qualities employers may seek in a candidate.	CD4.b.2.m: Identify the components of a job description.	<b>CD4.b.5.h:</b> Use multiple resources to locate job opportunities.
and applying for employment to find and obtain a desired job.		CD4.b.3.m: Use technology to assist in career exploration and jobseeking activities.	CD4.b.6.h: Prepare a resume, cover letter, employment application.



	Per	formance Indicators (By Grade Ba	nd)
Learning Priority	PK-5	6-8	9-12
		<b>CD4.b.4.m:</b> Compare and contrast personal attributes with employment needs and trends.	<b>CD4.b.7.h:</b> Employ critical thinking and decision-making skills to exhibit qualifications to a potential employer in an interview.
	<b>CD4.c.1.e:</b> Recognize the appropriate behavior and communication skills necessary in adult interactions.	CD4.c.2.m: Demonstrate the behavior and etiquette appropriate to interactions with adults.	CD4.c.4.h: Model behaviors that demonstrate reliability and dependability.
CD4.c: Identify and exhibit traits for retaining employment.		<b>CD4.c.3.m:</b> Distinguish between appropriate behaviors in a social vs. professional setting.	CD4.c.5.h: Maintain appropriate dress and behavior for the job to contribute to a safe and effective workplace/jobsite.
retaining employment.			CD4.c.6.h: Complete required employment forms and documentation.
			<b>CD4.c.7.h:</b> Summarize key activities necessary to retain a job in an industry.
<b>CD4.d:</b> Develop positive relationships with others.	<b>CD4.d.1.e:</b> Define what it means to be respectful and non-judgmental.	<b>CD4.d.3.m:</b> Interact with others in a respectful and non-judgmental manner.	<b>CD4.d.5.h:</b> Participate in cocurricular and community activities to enhance the school experience.
	CD4.d.2.e: Define cooperation.	CD4.d.4.m: Use cooperative behavior in helping peers accomplish goals and tasks.	<b>CD4.d.6.h:</b> Evaluate the best method to assist co-workers in accomplishing goals and tasks.
			CD4.d.7.h: Examine the skills required to enable students to successfully transition to post-secondary opportunities.
			CD4.d.8.h: Use a systematic approach to academic and career planning for students to achieve their learning, socio-cultural and work goals.



### Content Area: EHS/Environment, Health and Safety

**Standard: EHS1:** Students will identify the importance and interrelationships of health, safety and environmental systems and evaluate the impacts of these systems on organizational performance for continuous improvement.

	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
	<b>EHS1.a.1.e:</b> Recognize and describe various types of natural and humanbuilt systems.	<b>EHS1.a.5.m:</b> Describe the process of change, flow of energy and the importance of diversity in natural and human-built systems.	EHS1.a.9.h: Assess systems dynamics, including constant change and carrying capacity within social, ecological and economic systems.
	<b>EHS1.a.2.e:</b> Describe how social, ecological and economic systems have benefits and consequences.	EHS1.a.6.m: Compare ways in which social, ecological and economic systems have been managed.	EHS1.a.10.h: Evaluate the societal, ecological and economic costs and benefits of allocating resources in various ways.
<b>EHS1.a:</b> Assess the interdependency among natural and human-built systems, including social, ecological and economic health.			<b>EHS1.a.11.h:</b> Identify strategies to maintain societal, ecological and environmental health.
	<b>EHS1.a.3.e:</b> Describe how personal choices impact natural and humanbuilt systems.	<b>EHS1.a.7.m:</b> Analyze the impact of personal choices regarding natural and human-built systems on future actions.	eHS1.a.12.h: Evaluate the impact of personal choices on the interactions or interdependency between natural and human-built systems.
	EHS1.a.4.e: Identify and give examples of short-term and long-term solutions to a problem.	EHS1.a.8.m: Evaluate the advantages and disadvantages of short-term and long-term solutions and the impacts on social, ecological and economic environments.	EHS1.a.13.h: Assess how the human-built environment can be designed or modified to promote ecological and economic health and provide a better quality of life.
<b>EHS1.b:</b> Engage in systems thinking and inquiry processes that identify problems while analyzing the impacts of decisions made now and in the future.	<b>EHS1.b.1.e:</b> Engage in a decision-making process that includes selecting and using data, suggesting possible alternatives, predicting consequences and defending the decision.	<b>EHS1.b.3.m:</b> Evaluate consequences of a variety of approaches on social, ecological and environmental systems.	EHS1.b.5.h: Formulate a plan of action that addresses a current issue that considers the impact on social, economic and ecological systems now and in the future.
	<b>EHS1.b.2.e:</b> Identify questions that require skilled investigation to solve current social, economic and ecological problems.	<b>EHS1.b.4.m:</b> Plan investigations to collect information, make predictions and offer explanations about the social, economic, and ecological questions asked.	<b>EHS1.b.6.h:</b> Communicate the results of an investigation of current issues' effects on social, economic and ecological systems.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
<b>EHS1.c:</b> Develop solutions to social, economic and ecological problems without compromising the ability of future generations to meet their needs.	<b>EHS1.c.1.e:</b> Identify examples of how personal actions can influence social, economic and ecological systems.	eHS1.c.4.m: Give examples of education, economic and governmental institutions' and individuals' influence on social, economic and ecological systems.	educational, economic and governmental influences on systems and identify the roles individuals play within the systems.
	<b>EHS1.c.2.e:</b> Identify local or regional social, economic and ecological issues.	EHS1.c.5.m: Explain the political, legal or economic reasons for resolving local, state and national social, economic or ecological issues.	that contribute to the development of social, economic and ecological systems issues and policies.
	EHS1.c.3.e: Identify short-term and long-term solutions to a problem.	EHS1.c.6.m: Develop a plan for personal contribution toward improving or maintaining some part of the social, economic or ecological system.	EHS1.c.9.h: Formulate a plan to maintain or improve some part of the local or regional social, economic or ecological system.
	EHS1.d.1.e: Identify health and safety considerations in the classroom along with individual responsibility for maintaining conditions.	EHS1.d.4.m: Identify the relationships between school and community conditions with regard to personal and environmental health and safety.	EHS1.d.7.h: Assess workplace conditions with regard to personal and environmental health and safety.
<b>EHS1.d:</b> Implement personal and jobsite safety rules and regulations to maintain and improve safe and healthful working conditions and environments.	<b>EHS1.d.2.e:</b> Identify different types of jobs and how safety and health systems operate.	EHS1.d.5.m: Recognize and use systems in school and in the community that protect and enhance personal, environmental health and safety.	EHS1.d.8.h: Identify different workplace systems that protect and enhance personal and environmental health and safety.
	<b>EHS1.d.3.e:</b> Explain the origin of rules and laws to promote health and safety in school and work.	<b>EHS1.d.6.m:</b> Discuss employee rights and responsibilities and how to apply them in a workplace setting.	rights and responsibilities to maintain workplace health and safety, including compliance with rules and laws.



**Content Area: GCA/Global and Cultural Awareness** 

**Standard: GCA1:** Students will propose solutions and initiatives related to global issues.

	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
	GCA1.a.1.e: List ways in which people are different from one another.	<b>GCA1.a.4.m:</b> Explain reasons people are different based on where in the world they live.	GCA1.a.7.h: Interpret how differences will affect people's interactions in their own communities and when traveling to other regions and countries.
<b>GCA1.a:</b> Evaluate the effects of diversity encountered through interactions with people in or from other parts of the community, state, nation and world.	GCA1.a.2.e: List ways in which communities are different from one another.	<b>GCA1.a.5.m:</b> Describe reasons why communities develop differently.	GCA1.a.8.h: Explain the differences between communities located near one another as well as between nations.
	GCA1.a.3.e: Identify historical examples of large ethnic groups emigrating to a new country or community.	<b>GCA1.a.6.m:</b> Describe the effects of diverse groups moving into the same community.	<b>GCA1.a.9.h:</b> Predict the effects of a new group of people moving into an existing community.
	<b>GCA1.b.1.e:</b> Summarize events taking place in various parts of the world.	GCA1.b.4m: Explain how an event in one part of the world caused an effect in another part of the world.	GCA1.b.7.h: Predict how a recent global event could affect community and self.
<b>GCA1.b:</b> Explain how events in one part of the world affect nations, communities and individuals in other parts of the world.	GCA1.b.2.e: Discuss how personal differences can contribute to conflict between individuals.	<b>GCA1.b.5.m:</b> Describe how personal conflicts can lead to larger scale conflicts between groups of people.	GCA1.b.8.h: Describe events where conflicts escalated to become national or global conflicts.
	GCA1.b.3.e: Summarize challenges and crises taking place in various parts of the world.	<b>GCA1.b.6.m:</b> Explain how diversity can affect challenges and crises.	GCA1.b.9.h: Describe how diversity has impacted local, national or global challenges.
	<b>GCA1.c.1.e:</b> Identify ways in which diversity has led to innovation and opportunity.	<b>GCA1.c.4.m:</b> Discuss examples of diverse groups working together to make the world better.	GCA1.c.7.h: Explain how diverse groups could work collectively to resolve a local problem or challenge.
<b>GCA1.c:</b> Explain how diverse groups of people can work together to overcome local, national, regional and global crises.	GCA1.c.2.e: Give examples of nations collaborating.	GCA1.c.5.m: Discuss examples of diverse nations collaborating to make the world better.	GCA1.c.8.h: Analyze how diversity has contributed to successful resolution of global challenges.
	<b>GCA1.c.3.e:</b> Describe how diverse groups of people can work together.	GCA1.c.6.m: Explain how diverse nations can accomplish tasks a single nation could not.	GCA1.c.9.h: Predict how diverse nations may work together in addressing current global challenges and issues.



Standard: GCA2: Students will assess the benefits and challenges of working in diverse settings and on diverse teams.				
	Performance Indicators (By Grade Band)			
Learning Priority	PK-5	6-8	9-12	
GCA2.a: Work effectively with diverse individuals in a variety of settings and contexts.	<b>GCA2.a.1.e:</b> Identify different ways people learn.	<b>GCA2.a.3.m:</b> Explain how people differ in the way they see the world and their experiences.		
	GCA2.a.2.e: List ways in which people are different from one another.	GCA2.a.4.m: Describe ways to collaborate in the presence of language, personality and cultural differences.	GCA2.a.6.h: Collaborate with others in the presence of language, personality and cultural differences.	
		GCA2.a.5.m: Demonstrate mutual respect and open dialogue with individuals representing diverse cultures, beliefs and lifestyles.	GCA2.a.7.h: Collaborate with diverse individuals to accomplish tasks in personal, school, work and community contexts.	
	GCA2.b.1.e: List differences between self and others on a team.	<b>GCA2.b.4.m:</b> Describe the value of traits, beliefs and experiences of others that differ from self.	GCA2.b.7.h: Develop ideas for using awareness of diversity to create new opportunities.	
<b>GCA2.b:</b> Develop innovative solutions and initiatives as part of a diverse team.	GCA2.b.2.e: Identify benefits of working with someone with a diverse background or set of experiences.	GCA2.b.5.m: Demonstrate ability to learn from and work collaboratively with individuals representing diverse cultures, beliefs and lifestyles.	GCA2.b.8.h: Synthesize the experiences of a diverse group to develop innovative solutions to a given problem.	
	GCA2.b.3.e: Identify how groups comprised of individuals from diverse backgrounds may approach situations differently than those of similar backgrounds.	GCA2.b.6.m: Contrast the capabilities of diverse teams with those of homogeneous teams.		



### **Content Area: IMT/Information, Media and Technology Skills**

**Standard: IMT1:** Students will access, interpret and evaluate information from a variety of sources in order to inform and support premises, arguments, decisions, ideas and initiatives.

	Per	formance Indicators (By Grade Ba	nd)			
Learning Priority	PK-5	6-8	9-12			
	IMT1.a.1.e: Give examples of various sources of data and information.	<b>IMT1.a.3.m:</b> Compare and contrast the benefits and drawbacks of various information sources.	<b>IMT1.a.6.h:</b> Justify the selection of various information sources for a given purpose.			
<b>IMT1.a:</b> Choose appropriate sources of data and information for a given purpose.	IMT1.a.2.e: Discuss how individual and group biases can affect how information is portrayed.	IMT1.a.4.m: Explain how information can be portrayed differently by groups with varying purposes and perspectives.	<b>IMT1.a.7.h:</b> Explain the level of objectivity for a given source of information.			
		<b>IMT1.a.5.m:</b> Use information sources to support an argument, idea or initiative.	IMT1.a.8.h: Model how raw data can be applied differently to support opposing arguments or premises.			
	<b>IMT1.b.1.e:</b> Describe the concepts of raw data and information.	<b>IMT1.b.4.m:</b> Distinguish the differences between raw data and information.	<b>IMT1.b.7.h:</b> Use raw data and information appropriately to support an argument, idea or initiative.			
<b>IMT1.b:</b> Determine the relevance, validity and timeliness of data and information.	IMT1.b.2.e: Discuss various electronic and non-electronic sources of data and information.	<b>IMT1.b.5.m:</b> Demonstrate ability to gather information from electronic and non-electronic sources.	IMT1.b.8.h: Compare and contrast validity of information from electronic and non-electronic sources.			
	<b>IMT1.b.3.e:</b> Describe the concepts of relevance, validity and timeliness as they relate to data and information.	<b>IMT1.b.6.m:</b> Analyze various sources of data and information for relevance, validity and timeliness.	IMT1.b.9.h: Defend a position or decision using relevant, valid and timely data and information.			
IMT1.c: Select relevant information	<b>IMT1.c.1.e:</b> Explain the concepts of relevance and reliability as they relate to data and information.	<b>IMT1.c.3.m:</b> Evaluate the relevance and reliability of various sources of information.	IMT1.c.5.h: Defend a solution or conclusion using appropriate data and information.			
necessary for making decisions and solving problems.	<b>IMT1.c.2.e:</b> Identify various sources of information.	IMT1.c.4.m: Contrast the appropriateness of data and information from different sources for different purposes.	<b>IMT1.c.6.h:</b> Interpret and select appropriate information to develop a resolution for a given situation.			



	Per	formance Indicators (By Grade Ba	nd)
Learning Priority	PK-5	6-8	9-12
	<b>IMT1.d.1.e:</b> Identify different ways to communicate data and information.	<b>IMT1.d.3.m:</b> Demonstrate how information analysis can be used to identify entrepreneurial opportunities.	<b>IMT1.d.6.h:</b> Defend a proposal for a new product or service based on data and information analysis.
IMT1.d: Apply data and information to communicate ideas and create new opportunities.		<b>IMT1.d.4.m:</b> Incorporate information from multiple sources to communicate a new idea or support an argument.	<b>IMT1.d.7.h:</b> Synthesize data and information from multiple sources to identify new trends.
	<b>IMT1.d.2.e:</b> Collect and review data and information from multiple sources.	<b>IMT1.d.5.m:</b> Apply a system for tracking and accessing data and information from multiple sources.	<b>IMT1.d.8.h:</b> Manage and share stored data and information for a specific purpose.
Standard: IMT2: Students will apply in	formation literacy skills to access a	nd evaluate media to design and p	roduce media products.
	IMT2.a.1.e: Identify various types of media.	IMT2.a.4.m: Explain the benefits and drawbacks of various forms of media.	IMT2.a.7.h: Defend the selection of various media formats for a given purpose.
IMT2.a: Analyze media messages to determine biases and objectivity.	<b>IMT2.a.2.e:</b> Discuss how individual and group biases can affect how information is portrayed.	<b>IMT2.a.5.m:</b> Explain how media content is portrayed differently by groups with varying purposes and perspectives.	<b>IMT2.a.8.h:</b> Compare and contrast the level of objectivity for given media sources.
	<b>IMT2.a.3.e:</b> Discuss how individual and group biases can affect how information is received.	IMT2.a.6.m: Explain how information is manipulated in media depending on the intended audience.	<b>IMT2.a.9.h:</b> Portray information in different ways to account for different audiences.
IMT2.b: Prepare media products in order to	IMT2.b.1.e: Identify common principles of graphic design and advertising.	<b>IMT2.b.2.m:</b> Create media products using common principles of graphic design.	IMT2.b.4.h: Create media products to communicate a given message to different audiences.
communicate a specific message.		<b>IMT2.b.3.m:</b> Explain how various elements of media combine to deliver a desired message.	IMT2.b.5.h: Compare and contrast the elements of media products and how each helps deliver a desired message.



**Standard: IMT3:** Students will use available information and communication technology to improve productivity, solve problems and create opportunities.

	Per	formance Indicators (By Grade Ba	nd)				
Learning Priority	PK-5	6-8	9-12				
	IMT3.a.1.e: Explore and use data management tools.	IMT3.a.5.m: Apply the use of data management tools in daily activities.	IMT3.a.9.h: Adapt and refine technology to continuously improve management of data in daily activity.				
IMT3.a: Adopt new technological tools to increase personal and organizational productivity.	IMT3.a.2.e: Explore and use communication tools.	IMT3.a.6.m: Demonstrate the ability to use electronic communication technology.	IMT3.a.10.h: Integrate technological tools to efficiently create and manage correspondence in daily activity.				
	IMT3.a.3.e: Explore and use productivity tools.	IMT3.a.7.m: Apply the use of technological tools for managing calendars, schedules and work flow.	IMT3.a.11.h: Adapt and refine technology to continuously improve personal and organizational productivity.				
	<b>IMT3.a.4.e:</b> Discuss how technology can serve as a positive and negative distraction.	IMT3.a.8.m: Explain how technology can detract from personal and organizational productivity.	IMT3.a.12.h: Manage use of technology to reduce negative impacts on productivity.				
	<b>IMT3.b.1.e:</b> Describe the nature of problems and how they can have multiple elements.	<b>IMT3.b.4.m:</b> Apply communication and information technology to the various elements of a problem.	IMT3.b.7.h: Use communication and information technology to effectively solve a given problem.				
IMT3.b: Select and use communication and information technology to help solve problems and provide opportunities.	IMT3.b.2.e: Discuss the impact of communication and information technology.	IMT3.b.5.m: Explain how communication and information technology have helped address national and global problems.	IMT3.b.8.h: Explain how communication and information technology could help address a current national or global problem.				
	<b>IMT3.b.3.e:</b> Describe the nature of opportunities.	IMT3.b.6.m: Use communication and information technology to pursue a new opportunity.	IMT3.b.9.h: Assess the use of communication and information technology to create new opportunities.				



Content Area: LE/Leadership

**Standard: LE1:** Students will apply leadership skills in real-world, family, community and business and industry applications.

	Per	formance Indicators (By Grade Ba	nd)		
Learning Priority	PK-5	6-8	9-12		
	<b>LE1.a.1.e:</b> Identify the various roles of leaders within organizations and give examples of positive leadership skills.	<b>LE1.a.5.m:</b> Exhibit skills such as empowerment, risk-talking, communication, focusing on results, decision-making, problem solving and investment in individuals when leading a group in solving a problem.	<b>LE1.a.10.h:</b> Exhibit skills such as compassion, service, listening, coaching, developing others, team development.		
<b>LE1.a:</b> Implement leadership skills to	<b>LE1.a.2.e:</b> Create a community of trust, giving space for different opinions and ideas to help students develop plans and prioritize tasks.	<b>LE1.a.6.m:</b> Consider issues related to self, team, community, diversity, environment and global awareness when leading others.	LE1.a.11.h: Demonstrate skills such as enthusiasm, creativity, conviction, mission, courage, concept, focus, principle-centered living and change when interacting with others in general.		
accomplish team goals and objectives.	LE1.a.3.e: Describe effective leadership and teamwork skills and identify ways to participate in civic activities in school, family or the community.	<b>LE1.a.7.m:</b> Participate in civic and community leadership and teamwork opportunities to enhance skills to develop leadership potential.	<b>LE1.a.12.h:</b> Exhibit skills such as innovation, intuition, adaptation, life-long learning and coach-ability to develop leadership potential over time.		
	<b>LE1.a.4.e:</b> Describe leadership in relation to trust, positive attitude, integrity, willingness and commitment to accept key responsibilities in a group project.	LE1.a.8.m: Explain leadership in relation to trust, positive attitude, integrity, willingness and commitment to accept key responsibilities in a group project.	LE1.a.13.h: Create a sense of trust, positive attitude, integrity, willingness and commitment in order to accept key responsibilities in a group project.		
		<b>LE1.a.9.m:</b> Build interest, guide and influence decisions organize efforts and involve members of a group.	<b>LE1.a.14.h:</b> Apply parliamentary procedure to an appropriate situation.		
<b>LE1.b:</b> Employ teamwork skills to achieve collective goals and use team members/	<b>LE1.b.1.e:</b> Work with a group to meet objectives while including all members.	<b>LE1.b.4.m:</b> Involve of all members during group discussions.	<b>LE1.b.7.h:</b> Capitalize on team members' individual talents and skills in a project.		
talents effectively.			<b>LE1.b.8.h:</b> Apply conflict management skills to help facilitate solutions.		



	Peri	formance Indicators (By Grade Ba	nd)
Learning Priority	PK-5	6-8	9-12
	<b>LE1.b.2.e:</b> Demonstrate commitment and a positive attitude toward team goals.	<b>LE1.b.5.m:</b> Demonstrate teamwork skills through working cooperatively with group members, group leader and others, both in the school and in the community, to achieve group objective.	LE1.b.9.h: Evaluate and apply teamwork processes that provide team building, consensus, continuous improvement, respect for the opinions of others, cooperation, adaptability and conflict resolution.
	<b>LE1.b.3.e:</b> Outline plans to improve teamwork.	<b>LE1.b.6.m:</b> Demonstrate a positive attitude and a commitment toward achieving team goals.	LE1.b.10.h: Demonstrate the ability to negotiate and adapt effectively to changes in projects and work activities to meet timelines.
	<b>LE1.c.1.e:</b> Identify the roles and responsibilities of citizenship.	<b>LE1.c.3.m:</b> Analyze the roles and responsibilities of citizenship.	<b>LE1.c.6.h:</b> Assess the roles and responsibilities of citizenship and formulate an activity or event to showcase community service.
	<b>LE1.c.2.e:</b> Describe involvement in a civic activity.	<b>LE1.c.4.m:</b> Select and develop a community service activity/event.	<b>LE1.c.7.h:</b> Plan a community service event, participate in the event and evaluate its impact.
<b>LE1.c:</b> Identify the role of community service and service learning in family, community		<b>LE1.c.5.m:</b> Show organizational skills necessary to be a successful leader and citizen and practice those skills in real-life situations.	<b>LE1.c.8.h:</b> Plan and participate in activities that rate skills necessary to be a successful leader and citizen.
and business and industry.			<b>LE1.c.9.h:</b> Advocate for issues on the local, state and international level.
			<b>LE1.c.10.h:</b> Identify components and structure of community-based organizations.
			LE1.c.11.h: Participate in the development of a program of work/strategic plan and work to implement the organization's goals.



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# **Section IV**

Wisconsin Standards for Family and Consumer Sciences



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#### **Wisconsin Standards for Family and Consumer Sciences**

Family and Consumer Sciences is a discipline based on the family and on the relationship between work and the family. The mission is to empower people to effectively manage emerging life issues by applying skills, analyzing options and strengthening interpersonal competencies through an interrelated curriculum. Participation in the program enables students to develop skills to manage their own personal, family and career lives, as well as develop insights into the interaction within families and the relationship of work and family.

Career and technical skills are developed through career clusters and pathways. The Wisconsin Standards for Family and Consumer Sciences develop focus on content and additional direction for specific career pathways. Family and Consumer Sciences (FCS) career areas provide focused and enhanced content detail and additional direction for specific career pathways within the career clusters: Human Services, Education, Finance, Health Science, Hospitality and Tourism, STEM (Science, Technology, Engineering and Mathematics), Architecture and Construction and Marketing, Sales and Services. Students have the opportunity to explore and prepare for careers in culinary arts, nutrition and wellness, food science, education, early childhood, fashion design and construction, interior design, textiles, tourism and hospitality, social services and human services. Family and Consumer Sciences programming addresses individual, family and or community needs in authentic experiences to successfully live and work through the following experiences:

- Work-Based Learning Programs such as Assistant Child Care Teacher, Infant Toddler, State Certified Skills Cooperative Education Certificate, Employability Skills;
- Career and Technical Student Organization such as Wisconsin Association of FCCLA; and
- classroom delivery of learning priorities that document the integration of academic and technical skills.

#### **Courses in Family and Consumer Sciences**

Middle level and high school Family and Consumer Sciences programs are taught by licensed Family and Consumer Sciences teachers. The K-12 framework addresses 16 content standards plus the Reasoning for Action standard. The reasoning for action comprehensive standard assists learners to use the reasoning processes, individually and collectively, to take responsible action in families, workplaces and communities.

The framework is organized by grade levels: K-5, 6-8 and 9-12 and is intended to serve as a guideline for school districts in developing curriculum for family and consumer sciences programs. The Wisconsin FCS standards add alignment with FCCLA programs; Career Clusters and Pathways; and 21<sup>st</sup> century skills.

#### Family and Consumer Sciences Standards

Reasoning for Action

Career, Community and Family

**Consumer and Family Resources** 

Education and Early Childhood

Facilities Management and Maintenance

Family

Family and Community Services

**Food Production and Services** 

Food Science, Dietetics, and Nutrition

Hospitality, Tourism and Recreation

Housing and Interior Design

**Human Development** 

Interpersonal Relationships

**Nutrition and Wellness** 

Parenting

Textiles, Fashion and Apparel



The following chart outlines a curriculum alignment of the content area standards into a variety of course types that may be developed within local school districts.

Note: The following chart identifies the primary standard source (P) for a specific type of course. Additionally, the secondary standard sources (s) may also be used to complement the primary standard source within a type of course. The types of courses listed are not inclusive of all health science courses. School districts may have a variety of names for these types of courses.

**P**=Primary source/s=secondary source

	Co	ommon Ca	areer	& Techn	ical	Standards	Family and Consumer Sciences Standards																
Type of Course	Global Awareness	Life & Career Skills, Career Development, & Employability Skills	Information, Media & Technology	Sustainability, Environmental, & Safety	Leadership	Communication, Creativity, Collaboration, & Critical Thinking	Reasoning for Action	Career, Community and Life Connections	Consumer and Family Resources	Consumer Services	Early Childhood Education	Facilities Mgt. and Maintenance	Family	Family and Community Services	Food Production and Services	Food Science, Dietetics, and Nutrition	Hospitality, Tourism, and Recreation	Housing, Interiors, and Furnishings	Human Development	Interpersonal Relationships	Nutrition and Wellness	Parenting	Textiles and Apparel
Apparel, Textiles, & Design	S	S	S	S	S	S	S			S		S	S	S				S					Р
Assistant Child Care Teacher (ACCT)	S	S	S	S	S	S	S	s			р		s										
Careers/Employability Skills	S	S	S	S	S	S	S	S	Р	Р	P	Р	s	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
Child Development	S	S	S	S	S	S	S	S			Р		Р						Р	Р		Р	
Child Care Teacher (CCT)	S	S	S	S	S	S	S	S			Р		Р	S					Р	S	S	s	
Comprehensive FCS	S	S	S	S	S	S	S	Р	Р	S	s	S	s	S	Р	S		Р	Р	Р	Р	Р	S
Consumer Economics/Personal & Family Finance		S	S	S	S	S	S		Р	Р													
Culinary Arts	S	S	S	S	S	S	S					S			Р	Р			S	S	S		
Facilities Management/Work Based Learning (WBL)	S	S	s	S	S	S	s					Р		S		s	s	s			s		
Family Living/Interpersonal Relationships	S	S	S	s	S	S	S	S					s	S					S	Р		S	
Fashion Design/Construction	S	S	S	s	S	S	S											S					Р
Health and Wellness/Food and Nutrition	S	S	S	S	S	S	S	S							S	Р	S		S		Р		
Food Science	S	S	S	S	S	S	s	S							S	Р	S						
Food Services	S	S	S	S	S	S	S	S							Р	S	S		S				
Health Occupations-Introduction	S	S	S	S	S	S	S	S					s	S		S			S	S	S		
Hospitality/Tourism or Lodging Management Internship		S	s	S	s	S	S	s		s		s			s	S	Р			S	s		
Hospitality/Tourism and Food Service Management		S	s	S	S	S	S	s		S		s			S	s	Р			s	s		
Human Growth and Development	S	S	S	S	S	S	s						s			S			Р		s		
Infant and Toddler (IT)			S	S	S	S	S					S	s						S			S	
Interior Design	S	S	S	S	S	S	S	S										Р					S



	Common Career & Technical Standards					Standards	Family and Consumer Sciences Standards																
Type of Course	Global Awareness	Life & Career Skills, Career Development, & Employability Skills	Information, Media & Technology	Sustainability, Environmental, & Safety	Leadership	Communication, Creativity, Collaboration, & Critical Thinking	Reasoning for Action	Career, Community and Life Connections	Consumer and Family Resources	Consumer Services	Early Childhood Education	Facilities Mgt. and Maintenance	Family	Family and Community Services	Food Production and Services	Food Science, Dietetics, and Nutrition	Hospitality, Tourism, and Recreation	Housing, Interiors, and Furnishings	Human Development	Interpersonal Relationships	Nutrition and Wellness	Parenting	Textiles and Apparel
Internships/Cooperative Education-WBL	S	S	S	S	S	S	S	S	S	S	S	S		S	S	S	S	S			S		S
Life Skills	S	s	S	S	S	S	S	S	S	S	S	S	s	S	S	S	S	S	S	S	S	S	S
Lodging Management/ProStart		s	S	s	S	S	S	S	S			S	s		S		Р	Р					
Medical Terminology	S	S	S	s	S	S	S	S								S			S				
Parenting	S	S	S	s	S	S	S				S		s						Р		S	Р	
Principles of Baking and Pastry	S	S	S	s	S	S	S	S							Р	Р	S	S					

#### **Program Structure**

The progression of instruction related to the Family and Consumer Sciences standards should be developed throughout the PK-12 system as reflected by the learning priorities that are identified within the three grade bands featured in this document. Family and Consumer Sciences licensed staff at each of the grade levels can be critical to the fluidity of standards development across the PK-12 grade bands, provide flexibility of delivery options, support best practices that are researched based within content instruction, develop additional resources with other academic classroom teachers in related areas of instruction and develop a collaborative relationship with elementary classroom teachers who are teaching fundamental skills to only their own students.

Grade	s PK-5	Grad	es 6-8	Grad	es 9-12
1.	Foundational skills are incorporated into elementary level course work in multiple disciplines.	1.	A dedicated career exploration program that integrates course work that introduces and/or expands upon Family and Consumer Sciences.	1.	An integrated sequence of courses within Family and Consumer Sciences that develops coursework related to Programs of Study in multiple career pathways.
		2.	Exploratory units in comprehensive required or elective programs that support career development and skills needed across content areas.	2.	A balanced Family and Consumer Sciences Program that supports student career development in a variety of career clusters.
		3.	Elective course options for students in Career and Technical Education subjects, including Family and Consumer Sciences.	3.	A career cluster program that provides dedicated curriculum and resources that feature capstone coursework, postsecondary credit attainment, and/or industry connections through certifications.

#### **Delivery of Family and Consumer Sciences Courses**

These are multiple ways that students access Family and Consumer Sciences courses within the K-12 system:

Face-to-Face Classroom Instruction



- Digital Learning (models may include blended, hybrid, and online distance learning at multiple grade levels)
- Transcripted Credit (partnering with local Technical College or University should be strongly considered)
- Youth Options
- Work-Based Learning (State Certified Skill Standards, Youth Apprenticeship, etc.)

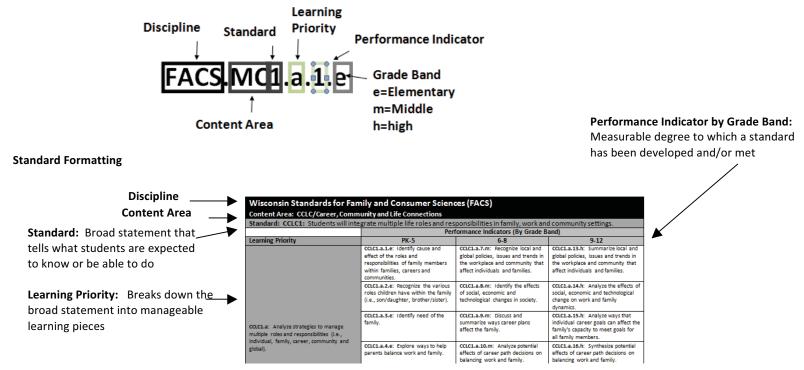
In Wisconsin, each district determines the best setting for courses within the school. Adaptability and accessibility are important elements as a wide variation in what, how much, and when concepts in FCS are introduced to students and in the level of depth in which any particular standard is developed. The standards apply to all students, regardless of age, gender, cultural or ethnic background, disabilities, aspiration, interests or motivations.



#### Standard Structure

The Wisconsin Standards for Career and Technical Education, including the Wisconsin Common Career Technical Standards, each follow a similar structure.

#### **Standard Coding**



#### **Grade Bands**

Grade bands of PK-5, 6-8 and 9-12 align to typical elementary, middle and high school levels.

- Grade band PK-5 performance indicators represent knowledge and skills that should be integrated throughout the elementary curriculum.
   Career and technical education teachers in districts are an excellent resource to assist in the development of curriculum and activities.
- Career and technical education should be part of the core curriculum for all middle school students. Awareness, exploration and building
  foundational skills for career pathways occur in middle school. The performance indicators in grade band 6-8 showcase foundational skills
  with an emphasis on career development.
- Career and technical education at the high school level must go beyond awareness and exploration. Students should be developing specific knowledge and skills that are transferrable to other coursework, a job-site or postsecondary options. Performance indicators for grades 9-12 align specifically to industry standards and expectations for career clusters and pathways.



### **Discipline: Family & Consumer Sciences (FCS)**

Content Area: PAS/Process for Areas of Study

**Standard: PAS1:** Students will use the reasoning process, individually and collaboratively, to take responsible action in families, workplaces and communities.

	Per	formance Indicators (By Grade Ba	and)
Learning Priority	PK-5	6-8	9-12
PAS1.a: Evaluate reasoning for self and others.	PAS1.a.1.e: Make decisions for self.	<b>PAS1.a.2.m:</b> Distinguish between adequate and inadequate decisions of information.	PAS1.a.3.h: Contrast consequences for decision making for self, others, culture/society and global environment.
PAS1.b: Analyze recurring and evolving family, workplace and community concerns.	PAS1.b.1.e: Use concern in making decisions.	<b>PAS1.b.2.m:</b> Classify concerns such as theoretic, technical, practice.	PAS1.b.3.h: Describe levels of concerns: individual, family, workplace, community, cultural/societal, global/environmental.
PAS1.c: Analyze practical reasoning components.	PAS1.c.1.e: Use decision making in daily living.	PAS1.c.2.m: Differentiate types of knowledge needed for reasoned action: contextual factors, valuedends, goals, action taken and consequences.	PAS1.c.3.h: Analyze adequate and in-adequate information and sources in making decisions.
<b>PAS1.d:</b> Implement practical reasoning for responsible action in families, workplaces and communities.	<b>PAS1.d.1.e:</b> Use information to solve issues and problems.	PAS1.d.2.m: Evaluate short and long term consequences of possible actions of self, others, culture/society and global environment.	PAS1.d.3.h: Design plans for accomplishing a selected action using the reasoning process of self, others, culture/society and global environment.
<b>PAS1.e:</b> Demonstrate scientific inquiry and reasoning to gain factual knowledge and test theories on which to base judgments for action.	<b>PAS1.e.1.e:</b> Use observations to generate conclusions based on evidence of problems.	<b>PAS1.e.2.m:</b> Test hypotheses based on scientific principles, observations, evidence.	<b>PAS1.e.3.h:</b> Judge validity and reliability of information, sources, opinions and evidence.



### Wisconsin Standards for Family and Consumer Sciences (FCS)

**Content Area: CCLC/Career, Community and Life Connections** 

Standard: CCLC1: Students will integrate multiple life roles and responsibilities in family, work and community settings.

Standard: CCLCI: Students will lifte	·	formance Indicators (By Grade Ba	, ,				
Learning Priority	PK-5	6-8	9-12				
	cclc1.a.1.e: Identify cause and effect of the roles and responsibilities of family members within families, careers and communities.	<b>CCLC1.a.7.m:</b> Recognize local and global policies, issues and trends in the workplace and community that affect individuals and families.	cclc1.a.13.h: Summarize local and global policies, issues and trends in the workplace and community that affect individuals and families.				
	cclc1.a.2.e: Recognize the various roles children have within the family (i.e., son/daughter, brother/sister).	of social, economic and technological changes in society.	CCLC1.a.14.h: Analyze the effects of social, economic and technological change on work and family dynamics.				
CCLC1.a: Analyze strategies to manage multiple roles and responsibilities (i.e., individual, family, career, community and	CCLC1.a.3.e: Identify need of the family.	<b>CCLC1.a.9.m:</b> Discuss and summarize ways career plans affect the family.	cclc1.a.15.h: Analyze ways that individual career goals can affect the family's capacity to meet goals for all family members.				
global).	CCLC1.a.4.e: Explore ways to help parents balance work and family.	<b>CCLC1.a.10.m:</b> Analyze potential effects of career path decisions on balancing work and family.	cclc1.a.16.h: Synthesize potential effects of career path decisions on balancing work and family.				
	CCLC1.a.5.e: Recognize differences between needs and wants.	<b>CCLC1.a.11.m:</b> Differentiate needs and wants which may influence opportunities for family members.	CCLC1.a.17.h: Define goals for lifelong learning and leisure opportunities for all family members.				
	<b>CCLC1.a.6.e:</b> Recognize interests and skills.	<b>CCLC1.a.12.m:</b> Explore pathways of skills needed to support families.	cclc1.a.18.h: Develop a life plan, including pathways to acquiring the knowledge and skills needed to achieve individual, family and career goals.				
CCLC1.b: Demonstrate transferable and employability skills in school, community and workplace settings.	CCLC1.b.1.e: List jobs that community members perform.	career choices to determine the knowledge, skills and attitudes associated with each career.	career choices to determine the knowledge, skills and attitudes associated with each career.				
workplace settings.	CCLC1.b.2.e: Complete tasks at home and school.	<b>CCLC1.b.9.m:</b> Explore and discuss job seeking and job keeping skills.	CCLC1.b.17.h: Demonstrate job seeking and job keeping skills.				



	Per	formance Indicators (By Grade Ba	and)
Learning Priority	PK-5	6-8	9-12
		communication skills in school, community and part time jobs or chores and tasks.	communication skills in school, community and workplace settings
	cclc1.b.3.e: Demonstrate teamwork skills in school and community (i.e., group work, playground).	cclc1.b.11.m: Demonstrate teamwork skills in school, community and part time jobs (i.e., clubs).	cclc1.b.19.h: Demonstrate teamwork skills in school, community and workplace settings (i.e., clubs, committees).
	<b>CCLC1.b.4.e:</b> Explore changes in technology for individual and family settings.	CCLC1.b.12.m: Experiment with technologies.	CCLC1.b.20.h: Analyze strategies to manage the effects of changing technologies in workplace settings.
	<b>CCLC1.b.5.e:</b> Recognize qualities that good leaders share.	CCLC1.b.13.m: Demonstrate leadership skills and abilities in school and community settings.	CCLC1.b.21.h: Demonstrate leadership skills and abilities in school, workplace and community settings (i.e., office, leader).
	<b>CCLC1.b.6.e:</b> Recognize school and community safety.	contribute to maintaining safe and healthy school, work and community environments.	cclc1.b.22.h: Analyze factors that contribute to maintaining safe and healthy school, work and community environments.
	<b>CCLC1.b.7.e:</b> Identify the qualities of a hard worker during classroom activities.	<b>CCLC1.b.15.m:</b> Demonstrate work ethic in the classroom and CTSO and club programs.	CCLC1.b.23.h: Demonstrate work ethics and professionalism in the workplace.
	<b>CCLC1.c.1.e:</b> Practice civic responsibility in the classroom and community.	cclc1.c.6.m: Create goals that support individuals and family members in carrying out community and civic responsibilities.	cclc1.c.12.h: Create and analyze goals that support individuals and family members in carrying out community and civic responsibilities.
<b>CCLC1.c:</b> Evaluate the reciprocal effects of individual and family participation in community activities.	<b>CCLC1.c.2.e:</b> Describe community service skills that individuals and families can use.	<b>CCLC1.c.7.m:</b> Practice community service skills that individuals and families can use through school activities.	CCLC1.c.13.h: Demonstrate skills that individuals and families can utilize to support civic engagement in community activities.
community activities.	<b>CCLC1.c.3.e:</b> Explore how individuals and groups work to make a community.	<b>CCLC1.c.8.m:</b> Explore personal and family participation in the community.	<b>CCLC1.c.14.h:</b> Analyze personal and family assets and skills that provide service to the community.
	<b>CCLC1.c.4.e:</b> Identify school resources and support systems available to students.	cclc1.c.9.m: Explore community resources and support systems available to individuals and families.	cclc1.c.15.h: Analyze community resources and systems of formal and informal support available to individuals and families.



	Per	formance Indicators (By Grade Ba	and)
Learning Priority	PK-5	6-8	9-12
	<b>CCLC1.c.5.e:</b> Explore agencies and institutions that assist families.	the effects of public policies agencies and institutions that affect the family.	<b>CCLC1.c.16.h:</b> Analyze the effects of public policies, agencies and institutions on the family.
		CCLC1.c.11.m: Identify ways individuals and families can influence change in policies, agencies and institutions that affect individuals and families.	individuals and families can influence change in policies, agencies and institutions that affect individuals and families in different environments.



## Wisconsin Standards for Family and Consumer Sciences (FCS)

**Content Area: CFR/Consumer and Family Resources** 

**Standard: CFR1:** Students will evaluate management practices related to the human, economic and environmental resources.

	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
	<b>CFR1.a.1.e:</b> Develop management and planning skills and processes to organize tasks and responsibilities (i.e., keep assignment notebook).	<b>CFR1.a.7.m:</b> Apply management and planning skills and processes to organize resources such as food, clothing, shelter, healthcare, recreation, transportation, time and human capital.	<b>CFR1.a.16.h:</b> Evaluate the types of skills necessary for organizing and utilizing resources in homes, families and the workplace.
	<b>CFR1.a.2.e:</b> Identify how individuals and families make choices to satisfy needs and wants.	CFR1.a.8.m: Discuss how individuals and families make choices to satisfy needs and wants.	<b>CFR1.a.17.h:</b> Explain strategies for selection of clothing based on resources available.
	<b>CFR1.a.3.e:</b> Explore decisions about providing safe and nutritious food for individuals and families.	CFR1.a.9.m: Utilize nutrition standards and guidelines from recommended intake in analyzing safe and nutritious food for individuals and families.	<b>CFR1.a.18.h:</b> Utilizing MyPyramid for menu planning, prepare nutritious meals and snacks for individuals and families.
<b>CFR1.a:</b> Demonstrate management of individual and family resources such as food, clothing, shelter, health care, recreation, transportation, time and human capital.		<b>CFR1.a.10.m:</b> Practice consumer skills in producing and maintaining or altering textile products and apparel.	cFR1.a.19.h: Use appropriate industry products and materials necessary for cleaning, pressing or maintaining textile, apparel and fashion products.
	<b>CFR1.a.4.e:</b> Identify ways that housing has changed over the years.	<b>CFR1.a.11.m:</b> Discuss ways that housing/costs influence the family.	<b>CFR1.a.20.h:</b> Apply consumer skills to decisions about housing, utilities and furnishings.
	<b>CFR1.a.5.e:</b> Practice basic hygiene (i.e., hand washing, teeth brushing).	<b>CFR1.a.12.m:</b> Develop awareness of proper hygiene on health of family.	<b>CFR1.a.21.h:</b> Summarize information to maintain healthcare to meet the needs of individuals and family members.
	<b>CFR1.a.6.e:</b> Explore many ways money is necessary in our communities.	<b>CFR1.a.13.m:</b> Apply consumer skills to decisions about recreation	<b>CFR1.a.22.h:</b> Apply consumer money management skills to decisions about recreation.
		<b>CFR1.a.14.m:</b> Discuss ways family transportation needs are met.	<b>CFR1.a.23.h:</b> Apply consumer skills to acquire and maintain transportation needs that meet the needs of individuals and families.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
		<b>CFR1.a.15.m:</b> Demonstrates competence in using information resources, including procedural knowledge and technical texts to perform specific tasks.	<b>CFR1.a.24.h:</b> Compare information resources used to manage individual and family needs.
<b>CFR1.b:</b> Analyze the relationship of the environment to family and consumer resources.	<b>CFR1.b.1.e:</b> Identify individual and family responsibility in relation to the environmental trends and issues (i.e., recycling).	<b>CFR1.b.4.m:</b> Demonstrate individual and family responsibility in relation to the environmental trends and issues.	<b>CFR1.b.8.h:</b> Analyze individual and family responsibility in relation to the environmental trends and issues.
		CFR1.b.5.m: Identify environmental trends and issues affecting families and future generations.	CFR1.b.9.h: Summarize environmental trends and issues affecting families and future generations.
	<b>CFR1.b.2.e:</b> Explore decisions about providing safe and nutritious food for individuals and families.	<b>CFR1.b.6.m:</b> Make decisions about providing safe and nutritious food for individuals and families.	<b>CFR1.b.10.h:</b> Analyze decisions about providing safe and nutritious food for individuals and families.
	<b>CFR1.b.3.e:</b> Model practices that conserve natural resources.	<b>CFR1.b.7.m:</b> Analyzes and evaluates environmental issues.	<b>CFR1.b.11.h:</b> Explain government regulations for conserving natural resources.
<b>CFR1.c:</b> Analyze policies that support consumer rights and responsibilities.		<b>CFR1.c.1.m:</b> Examine local community policies that provide consumer protection.	<b>CFR1.c.4.h:</b> Analyze state and federal policies and laws providing consumer protection.
		<b>CFR1.c.2.m:</b> Investigate how policies become laws relating to consumer rights.	<b>CFR1.c.5.h:</b> Analyze how policies become laws relating to consumer rights.
		<b>CFR1.c.3.m:</b> Identify skills used in seeking information to consumer rights.	<b>CFR1.c.6.h:</b> Analyze skills used in seeking information to consumer rights.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
<b>CFR1.d:</b> Evaluate the effects of technology on individual and family resources.	<b>CFR1.d.1.e:</b> Identify types of technology used by the family.	<b>CFR1.d.3.m:</b> Summarize types of technology that affect family and consumer decision-making.	<b>CFR1.d.5.h:</b> Apply strategies and technology to perform tasks that affect family and consumer decisions.
	<b>CFR1.d.2.e:</b> Discuss how technology impacts the family.	<b>CFR1.d.4.m:</b> Explore how media and technological advances affect family and consumer decisions.	<b>CFR1.d.6.h:</b> Analyze how media and technological advances affect family and consumer decisions.
<b>CFR1.e:</b> Analyze relationships between the economic system and consumer actions.	<b>CFR1.e.1.e:</b> Explore how individuals make choices that satisfy needs and wants of individuals and families.	CFR1.e.2.m: Identify the use of resources in making choices that satisfy needs and wants of individuals and families.	<b>CFR1.e.6.h:</b> Analyze resources used in making choices that satisfy needs and wants of individuals and families.
		<b>CFR1.e.3.m:</b> Examine individual and family roles in the economic system.	<b>CFR1.e.7.h:</b> Differentiate individual and family roles in the economic system.
		CFR1.e.4.m: Demonstrates competence in using various information sources, including reading and mathematics to compare economic system and consumer actions.	<b>CFR1.e.8.h:</b> Analyze economic effects of laws and regulations that pertain to consumers and providers of services.
		<b>CFR1.e.5.m:</b> Demonstrate practices that allow families to maintain economic self-sufficiency.	<b>CFR1.e.9.h:</b> Predict and determine practices that allow families to maintain economic self-sufficiency.
<b>CFR1.f:</b> Demonstrate management of financial resources to meet the goals of individuals and families across the life span.	<b>CFR1.f.1.e:</b> Explore the need for saving to meet needs and wants (i.e., how pennies add up).	<b>CFR1.f.2.m:</b> Identify the need for personal and family financial planning.	<b>CFR1.f.5.h:</b> Evaluate the specific need for personal and family financial planning.
		<b>CFR1.f.3.m:</b> Identify management principles used to make decisions to individual and family financial practices.	<b>CFR1.f.6.h:</b> Apply management principles to decisions to individual and family financial practices.
		CFR1.f.4.m: Demonstrates competence in using various information sources to perform specific tasks in financial management.	<b>CFR1.f.7.h:</b> Apply management principles to decisions about financial planning for individuals and families.



### Wisconsin Standards for Family and Consumer Sciences (FCS)

**Content Area: CS/Consumer Services** 

Standard: CS1: Students will integrate knowledge, skills and practices needed for a career in consumer services.

	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
<b>CS1.a:</b> Analyze career paths within consumer service industries.	<b>CS1.a.1.e:</b> Identify careers in consumer service careers.	<b>CS1.a.6.m:</b> Discuss roles and functions of individuals engaged in consumer service careers.	<b>CS1.a.12.h:</b> Explain roles and functions of individuals engaged in consumer service careers.
	<b>CS1.a.2.e:</b> Introduce opportunities for employment and entrepreneurial endeavors.	<b>CS1.a.7.m:</b> Explore opportunities for employment and entrepreneurial endeavors.	<b>CS1.a.13.h:</b> Analyze opportunities for employment and entrepreneurial endeavors.
	CS1.a.3.e: Introduce career paths in consumer services.	CS1.a.8.m: Investigate education and training requirements and opportunities for career paths in consumer services.	CS1.a.14.h: Summarize education and training requirements and opportunities for career paths in consumer services.
	<b>CS1.a.4.e:</b> Discuss current events related to consumer services.	<b>CS1.a.9.m:</b> Discuss the effects of the consumer service industry on local, state, national and global economies.	CS1.a.15.h: Analyze the effects of the consumer service industry on local, state, national and global economies.
	<b>CS1.a.5.e:</b> Recognize individual's strengths and achievements.	<b>CS1.a.10.m:</b> Identify and discuss the skills employers look for in careers within the consumer service industries.	<b>CS1.a.16.h:</b> Create an employment portfolio for use with applying for internships and work-based learning opportunities in consumer service careers.
		<b>CS1.a.11.m:</b> Research professional organizations in consumer service professions.	<b>CS1.a.17.h:</b> Analyze the role of professional organizations in consumer service professions.
<b>CS1.b:</b> Analyze factors that affect consumer advocacy.	<b>CS1.b.1.e:</b> Introduce advocacy groups at state and national levels.	<b>CS1.b.9.m:</b> Research advocacy groups at state and nationals levels.	<b>CS1.b.17.h:</b> Analyze the role of advocacy groups at state and nationals levels.
	<b>CS1.b.2.e:</b> Introduce how a bill is made.	<b>CS1.b.10.m:</b> Discover how a bill is passed and carried out.	<b>CS1.b.18.h:</b> Analyze the contributions of policy makers to consumer advocacy.
	<b>CS1.b.3.e:</b> Introduce strategies that enable consumers to become advocates.	<b>CS1.b.11.m:</b> Identify strategies that enable consumers to become advocates.	<b>CS1.b.19.h:</b> Demonstrate strategies that enable consumers to become advocates.
	<b>CS1.b.4.e:</b> Identify the difference between producer and consumer.	CS1.b.12.m: Discuss protection laws on advocacy.	<b>CS1.b.20.h:</b> Analyze the effects of consumer protection laws on advocacy.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
	CS1.b.5.e: Identify the risks of	CS1.b.13.m: Discuss the risks of	CS1.b.21.h: Apply strategies to
	consumer fraud.	consumer fraud.	reduce the risk of consumer fraud.
	<b>CS1.b.6.e:</b> Identify different forms	CS1.b.14.m: Develop roles of	CS1.b.22.h: Analyze the role of
	of media.	media in consumer advocacy.	media in consumer advocacy.
	<b>CS1.b.7.e:</b> Identify businesses in	CS1.b.15.m: Identify and discuss	<b>CS1.b.23.h:</b> Analyze the effects of
	local community.	businesses in the state and national level.	business and industry policies and procedures on advocacy.
	CS1.b.8.e: Introduce the use of	CS1.b.16.m: Develop educational	CS1.b.24.h: Analyze the use of
	educational and promotional	and promotional materials in	educational and promotional
	materials in consumer advocacy.	consumer advocacy.	materials in consumer advocacy.
	CS1.c.1.e: Introduce how the	CS1.c.9.m: Discuss the effects of	CS1.c.17.h: Explain the effects of
	economy affects family, work or	the economy on personal income,	the economy on personal income,
	career decisions.	individual and family security and	individual and family security and
		consumer decisions.	consumer decisions.
	<b>CS1.c.2.e:</b> Define the difference	CS1.c.10.m: Develop short-term	CS1.c.18.h: Demonstrate
	between a short-term and long-term	and long-term financial goals.	components of a financial planning
	goal.		process that reflect the distinction between needs, wants, values, goals
			and economic resources.
	CS1.c.3.e: Introduce the effect of	CS1.c.11.m: Discuss the effect of	CS1.c.19.h: Analyze the effect of
	consumer credit in long-term	consumer credit in long-term	consumer credit in long-term
	financial planning.	financial planning.	financial planning.
	<b>CS1.c.4.e:</b> Explain the importance of	CS1.c.12.m: Discuss investment	CS1.c.20.h: Compare investment
CS1.c: Analyze factors in developing a long-	savings.	and savings alternatives.	and savings alternatives.
term financial management plan.	<b>CS1.c.5.e:</b> Introduce the possible	<b>CS1.c.13.m:</b> Develop strategies for	CS1.c.21.h: Analyze the effects of
	risks in financial planning.	long-term financial planning.	risk management strategies on long-
	CC1 - C luturadura to the different	CC1 - 14 I-l	term financial planning.
	<b>CS1.c.6.e:</b> Introduce to the different stages of the lifecycle.	<b>CS1.c.14.m:</b> Identify the lifecycle and apply financial situations for	<b>CS1.c.22.h:</b> Analyze the effect of key life transitions on financial
	stages of the mecycle.	each stage.	planning.
	CS1.c.7.e: Identify the importance	CS1.c.15.m: Discuss the role of	CS1.c.23.h: Explain the role of
	of financial planning.	estate planning in long-term	estate planning in long-term
		financial planning.	financial planning.
	CS1.c.8.e: Introduce the importance	CS1.c.16.m: Discuss how handling	CS1.c.24.h: Analyze factors that
	of meeting financial deadlines.	your finances properly can help	influence establishing and
		improve your credit score and	maintaining a good credit rating and
		reduce rates on credit and	the effect of credit ratings on rates
		insurance.	and terms for credit and insurance.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
<b>CS1.d:</b> Analyze resource consumption for conservation and waste management practices.	CS1.d.1.e: Introduce the importance of keeping the environment clean.	<b>CS1.d.6.m:</b> Identify sources of residential and commercial energy, water policy and usage, waste disposal and pollution issues in the local environment.	<b>CS1.d.11.h:</b> Investigate sources and types of residential and commercial energy, water policy and usage, waste disposal and pollution issues.
	CS1.d.2.e: Introduce the importance of recycling in their community, as well as other energy reduction resources.	CS1.d.7.m: Apply local, state and national private and government consumer programs and services to recycle and conserve energy environmental resources.	CS1.d.12.h: Evaluate local, state and national private and government consumer programs and services to recycle and conserve energy and environmental resources.
	<b>CS1.d.3.e:</b> Discuss strategies and practices to conserve energy and reduce waste.	<b>CS1.d.8.m:</b> Explore strategies and practices to conserve energy and reduce waste.	<b>CS1.d.13.h:</b> Demonstrate strategies and practices to conserve energy and reduce waste.
	CS1.d.4.e: Introduce waste management issues. CS1.d.5.e: Introduce roles of	CS1.d.9.m: Examine waste management issues. CS1.d.10.m: Examine roles of	CS1.d.14.h: Analyze waste management issues. CS1.d.15.h: Analyze roles of
	government, industry and family in energy consumption.	government, industry and family in energy consumption.	government, industry and family in energy consumption.
<b>CS1.e:</b> Demonstrate skills needed for product development, testing and presentation.	<b>CS1.e.1.e:</b> Introduce the basic steps of researching.	CS1.e.9.m: Conduct market research to determine consumer trends and product development needs.	CS1.e.17.h: Analyze market research to determine consumer trends and product development needs.
	<b>CS1.e.2.e:</b> Compare consumer products.	<b>CS1.e.10.m:</b> Design or analyze a consumer product.	<b>CS1.e.18.h:</b> Design or analyze a consumer product.
	<b>CS1.e.3.e:</b> Identify what are the marketing tools used to sell a product.	<b>CS1.e.11.m:</b> Analyze a product for its marketing techniques.	cs1.e.19.h: Analyze features, prices, product information, styles and performance of consumer goods for potential trade-offs among the components.
	<b>CS1.e.4.e:</b> Identify products and purpose for its use.	CS1.e.12.m: Create a product using the scientific method.	CS1.e.20.h: Evaluate a product utilizing valid and reliable testing procedures.
	CS1.e.5.e: Identify how to collect data.	<b>CS1.e.13.m:</b> Discuss a statistical analysis processes to interpret, summarize and report data from tests.	<b>CS1.e.21.h:</b> Compare statistical analysis processes to interpret, summarize and report data from tests.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
	<b>CS1.e.6.e:</b> Identify key components of a design.	<b>CS1.e.14.m:</b> Create a product that contains the components of a good design.	<b>CS1.e.22.h:</b> Evaluate the labeling, packaging and support materials of consumer goods.
	CS1.e.7.e: Identify new products.	CS1.e.15.m: Demonstrate a product to educate an audience about a new product on the consumer market.	<b>CS1.e.23.h:</b> Research new products and explore the product reviews. Analyze the findings.
	<b>CS1.e.8.e:</b> Identify and discover different marketing techniques.	<b>CS1.e.16.m:</b> Explain marketing and sales techniques to aid consumers in the selection of goods and services that meet consumer needs.	<b>CS1.e.24.h:</b> Utilize marketing and sales techniques to aid consumers in the selection of goods and services that meet consumer needs.



Content Area: EC/Education and Early Childhood Comprehensive Standard

**Standard: EC1:** Students will integrate knowledge, skills and practices required for careers in early childhood, education and services.

	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
EC1.a: Investigate the necessity for and			<b>EC1.a.3.h:</b> Identify trends that impact child care.
purpose of quality group care for young children.	<b>EC1.a.1.m:</b> Identify available resources in the community for working parents.	<b>EC1.a.2.m:</b> Explore careers related to children.	<b>EC1.a.4.h:</b> Differentiate among the various types of quality child care programs.
<b>EC1.b:</b> Apply theories of developmentally appropriate practice to classroom situations.			<b>EC1.b.2.h:</b> Identify the historical contributions that have influenced how child care services are currently provided.
		<b>EC1.b.1.m:</b> Discuss developmental stages of children.	<b>EC1.b.3.h:</b> Apply theories of child development to various classroom situations.
<b>EC1.c:</b> Cultivate positive relationships with children in a child care setting.	<b>EC1.c.1.e:</b> Model strategies for constructive and supportive interactions between children and families.	<b>EC1.c.4.m:</b> Identify positive qualities of child care providers.	<b>EC1.c.7.h:</b> Demonstrate characteristics of a quality child care worker implementing developmentally appropriate practice.
	<b>EC1.c.2.e:</b> Present information to parents regarding developmental issues and concerns with children.	<b>EC1.c.5.m:</b> Demonstrate problem solving skills with children (i.e., crying, acting out, challenging situations).	<b>EC1.c.8.h:</b> Apply problem solving skills with children in a variety of early childhood settings.
	<b>EC1.c.3.e:</b> Establish developmentally appropriate guidelines for behavior.	<b>EC1.c.6.m:</b> Discuss various positive communications skills used in working with children.	<b>EC1.c.9.h:</b> Implement strategies for constructive and supportive interactions between children, families.
<b>EC1.d:</b> Guide children in appropriate behaviors.		<b>EC1.d.1.m:</b> Dramatize strategies for handling behavioral issues in working with young children.	<b>EC1.d.8.h:</b> Identify strategies for handling behavioral issues in early childhood programs.
		<b>EC1.d.2.m:</b> Identify developmentally appropriate practices in working with young children.	<b>EC1.d.9.h:</b> Respond to behavioral cues (i.e., comforting techniques, attachment behaviors, reducing stranger anxiety).



	Performance Indicators (By Grade Band)			
Learning Priority	PK-5	6-8	9-12	
		<b>EC1.d.3.m:</b> Explore interpersonal skills that promote positive relationships with children.	EC1.d.10.h: Demonstrate interpersonal skills that promote positive and productive relationships with children.	
		<b>EC1.d.4.m:</b> Recognize equity and respect of diversity.	<b>EC1.d.11.h:</b> Model equity and respect diversity of children.	
		<b>EC1.d.5.m:</b> Select development appropriate activities with children when caring for them.	<b>EC1.d.12.h:</b> Identify appropriate behavioral limits for a child based on the developmentally appropriate practice.	
			<b>EC1.d.13.h:</b> Create developmentally appropriate guidelines for behavior.	
			<b>EC1.d.14.h:</b> Identify resources for positive guidance when caring for children.	
		<b>EC1.d.6.m:</b> Discuss childcare guidelines (i.e., American Red Cross).	<b>EC1.d.15.h:</b> Apply state licensing rules related to guiding children.	
		<b>EC1.d.7.m:</b> Select strategies that will appropriately address challenging behaviors.	<b>EC1.d.16.h:</b> Implement strategies that will appropriately address the challenging behaviors.	
		<b>EC1.e.1.m:</b> Identify child development stages.	<b>EC1.e.6.h:</b> Choose developmentally appropriate activities (i.e., physical, social, emotional, moral and intellectual) for various ages (Include a learning objective and materials needed and reference appropriately).	
<b>EC1.e:</b> Create and facilitate developmentally appropriate activities for a variety of child care curricular areas.		<b>EC1.e.2.m:</b> Plan creative activities for children in a caregiving situation.	<b>EC1.e.7.h:</b> Plan and implement lesson plans (i.e., objectives, content, supplies, motivation, introduction, step-by-step procedures, closure/transition and evaluation).	
		<b>EC1.e.3.m:</b> Create possible activities for various age groups.	<b>EC1.e.8.h:</b> Monitor, reflect and adjust lesson plans as needed.	
		<b>EC1.e.4.m:</b> Identify positive forms of guiding young children in a variety of situations.	<b>EC1.e.9.h:</b> Identify children's accomplishments and provide constructive feedback.	



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
		<b>EC1.e.5.m:</b> Create possible activities for various age groups.	<b>EC1.e.10.h:</b> Implement learning activities in all curriculum areas that meet the developmental needs of children (i.e., child's language, learning styles, early experiences and cultural values).
			EC1.e.11.h: Create learning centers that provide for children's exploration, discovery and development.  EC1.e.12.h: Develop activities,
			routines and transitions.
	<b>EC1.f.1.e:</b> Explore careers related to children (i.e., community helpers).	EC1.f.2.m: Investigate Career Clusters related to children.	<b>EC1.f.4.h:</b> Identify the roles and functions of individuals engaged in early childhood, education and services.
			<b>EC1.f.5.h:</b> Summarize education and training requirements and opportunities for career paths in child care services.
EC1.f: Develop a career portfolio.			<b>EC1.f.6.h:</b> Analyze opportunities for employment.
			EC1.f.7.h: Explain the role of professional organizations in education and early childhood.
		<b>EC1.f.3.m:</b> Discuss the opportunity for business development in areas related to working with children.	<b>EC1.f.8.h:</b> Create an employment portfolio for use with applying for internships and work-based learning opportunities in education and early childhood.
EC1.g: Adhere to current United States Department of Agriculture Dietary Guidelines			<b>EC1.g.8.h:</b> Identify the nutritional needs of children.
		EC1.g.2.m: Recognize healthy food choices.	EC1.g.9.h: Plan safe and healthy meals and snacks.
and Wisconsin State Licensing Regulations.	EC1.g.1.e: Practice good nutrition and basic sanitation.	EC1.g.3.m: Recognize proper sanitation procedures.	<b>EC1.g.10.h:</b> Follow center's daily safety and sanitation procedures i.e., hand washing and meals.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
		EC1.g.4.m: Identify food allergies.	<b>EC1.g.11.h:</b> Describe safety modifications of food choices for children of different ages and abilities.
		<b>EC1.g.5.m:</b> Demonstrate strategies for good health, safety and sanitation.	<b>EC1.g.12.h:</b> Implement strategies to teach children health, safety and sanitation habits.
		<b>EC1.g.6.m:</b> Describe modifications for children with special dietary needs and restrictions.	<b>EC1.g.13.h:</b> Explain modifications for children with special dietary needs and restrictions.
		<b>EC1.g.7.m:</b> Identify procedures for food safety, storage, preparation and handling.	<b>EC1.g.14.h:</b> Explain procedures for food safety, storage, preparation and handling.
			<b>EC1.g.15.h:</b> Implement federal, state and local standards, policies, regulations and laws that affect children, families and programs.
	<b>EC1.h.1.e:</b> Implement strategies to teach children health, safety and sanitation habits.	<b>EC1.h.6.m:</b> Describe first aid, emergency, sanitary and routine care procedures.	EC1.h.12.h: Demonstrate skills in CPR and first aid.
<b>EC1.h:</b> Create a physically safe and emotionally secure environment for children both inside and outside of the center according to the licensing regulations.	<b>EC1.h.2.e:</b> Encourage personal safety and sanitation.	<b>EC1.h.7.m:</b> Practice daily safety and sanitation procedures.	<b>EC1.h.13.h:</b> Adhere to center's daily safety and sanitation procedures (i.e., hand washing, diapering, disposal, meals).
	<b>EC1.h.3.e:</b> Demonstrate security and emergency procedures.	<b>EC1.h.8.m:</b> Define and demonstrate security and emergency procedures.	<b>EC1.h.14.h:</b> Demonstrate security and emergency procedures (i.e., choking, injuries, strangers, fire, tornado).
			<b>EC1.h.15.h:</b> Demonstrate state licensing protocol for center safety (i.e., extension cords, location of materials, child pick up/drop off).
		<b>EC1.h.9.m:</b> Discuss common signs and symptoms of illness in children and respond appropriately.	<b>EC1.h.16.h:</b> Identify common signs and symptoms of illness in children and respond appropriately.
			<b>EC1.h.17.h:</b> Recommend equipment and supplies for learning centers.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
			EC1.h.18.h: Describe how layout helps a child develop socially, physically cognitively, morally and emotionally.
			EC1.h.19.h: Inspect the safety of indoor and outdoor space, furniture and equipment.  EC1.h.20.h: Discuss the Wisconsin
			licensing rules and regulations.  EC1.h.21.h: Implement federal, state and local standards, policies,
	EC1.h.4.e: Identify child abuse,	EC1.h.10.m: Describe behaviors and	regulations and laws that affect children, families and programs.  EC1.h.22.h: Participate in SIDS,
	neglect and safety.	ways to prevent Shaken Baby Syndrome.	Shaken Baby Syndrome and Child Abuse prevention training through state and national resources in required mandated reporting systems.
	<b>EC1.h.5.e:</b> Demonstrate health practices, such as hand washing and precautionary measures when coughing and sneezing.	<b>EC1.h.11.m:</b> Recognize basic health practices in the prevention and practices in caring for family members or caregiving non-family members.	<b>EC1.h.23.h:</b> Implement basic health practices and prevention procedures for workers and children regarding childhood illness and communicable diseases.
			<b>EC1.i.3.h:</b> Differentiate the characteristics of children who are at-risk, gifted or have a disability.
EC1.i: Implement modifications to accommodate special needs.			<b>EC1.i.4.h:</b> Identify specific modifications for special needs children.
			<b>EC1.i.5.h:</b> Implement learning activities in all curriculum areas that meet the developmental needs of children (i.e., modification).
	<b>EC1.i.1.e:</b> Recognize that some children have special needs.	EC1.i.2.m: Identify ways that classrooms meet the needs of all students.	EC1.i.6.h: Explain the need for inclusive programming.
			EC1.i.7.h: Promote and follow inclusive programming.



#### **Content Area: FMM/Facilities Management and Maintenance**

**Standard: FMM1:** Students will integrate knowledge, skills and practices required for careers in facilities management and maintenance.

	Р	erformance Indicators (By Grade B	and)
Learning Priority	PK-5	6-8	9-12
	<b>FMM1.a.1.e:</b> Explain the importance of education and lifelong learning.	<b>FMM1.a.5.m:</b> Determine the roles and functions of individuals engaged in facilities management and maintenance careers.	FMM1.a.9.h: Summarize education and training requirements and opportunities for career paths in facilities management and maintenance.
FMM1.a: Analyze career paths within the	<b>FMM1.a.2.e:</b> Explore the school's building and its grounds.	<b>FMM1.a.6.m:</b> Explore opportunities for employment and entrepreneurial endeavors in facilities management and maintenance careers.	FMM1.a.10.h: Analyze the effects of facilities management and maintenance occupations on local, state, national and global economies.
facilities management and maintenance areas.	<b>FMM1.a.3.e:</b> Introduce careers within Facilities Management and Maintenance.	<b>FMM1.a.7.m:</b> Analyze opportunities for employment and entrepreneurial endeavors.	FMM1.a.11.h: Create an employment portfolio for use with applying for internships and workbased learning opportunities in facilities management and maintenance careers.
	<b>FMM1.a.4.e:</b> Explore clubs and organizations.	<b>FMM1.a.8.m:</b> Explore professional organizations in careers within the facilities and maintenance areas.	<b>FMM1.a.12.h:</b> Analyze the role of professional organizations in facilities management professions.
	<b>FMM1.b.1.e:</b> Explain the importance of good organization.	<b>FMM1.b.7.m:</b> Develop a cleaning program for your personal space at home or school.	<b>FMM1.b.13.h:</b> Apply housekeeping standards and procedures.
<b>FMM1.b:</b> Demonstrate planning organizing and maintaining an efficient housekeeping operation for residential or commercial facilities.	<b>FMM1.b.2.e:</b> Comprehend the importance of cleanliness.	<b>FMM1.b.8.m:</b> Practice basic cleaning and sanitizing procedures and processes in maintenance.	FMM1.b.14.h: Operate cleaning equipment and tools.
	<b>FMM1.b.3.e:</b> Introduce safety concerns regarding chemicals and their uses.	<b>FMM1.b.9.m:</b> Identify safety and use of common cleaning items.	FMM1.b.15.h: Manage use of supplies.
	FMM1.b.4.e: Assist in cleaning personal spaces at school	<b>FMM1.b.10.m:</b> Assist in cleaning projects in residential or commercial facilities.	<b>FMM1.b.16.h:</b> Maintain interior surfaces, wall coverings, fabrics, furnishings and floor surfaces.
	<b>FMM1.b.5.e:</b> Practice energy saving techniques.	FMM1.b.11.m: Analyze energy efficient methods.	<b>FMM1.b.17.h:</b> Perform facilities maintenance based on established standards.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
	<b>FMM1.b.6.e:</b> Demonstrate courtesy when dealing with peers.	<b>FMM1.b.12.m:</b> Apply essential communication skills with peers.	<b>FMM1.b.18.h:</b> Demonstrate quality services in keeping with customer expectations.
	FMM1.c.1.e: Demonstrate the importance of a clean and sanitary environment.  FMM1.c.2.e: Recognize the	FMM1.c.6.m: Identify the importance of a clean and sanitary environment.  FMM1.c.7.m: Examine Material	FMM1.c.12.h: Analyze the various types of cleaning methods and their environmental effects.  FMM1.c.13.h: Summarize federal
	dangers of chemicals as outlined by the Environmental Protection Agency (EPA).	Safety Data Sheets (MSDS).	and state regulations regarding safe handling use and storage of chemicals.
<b>FMM1.c:</b> Demonstrate sanitation procedures for a clean and safe environment.	<b>FMM1.c.3.e:</b> Explain how to report any and all accidents to the proper individuals.	<b>FMM1.c.8.m:</b> Analyze the potential health concerns when dealing with blood borne pathogens.	FMM1.c.14.h: Apply Occupational Safety and Health Administration (OSHA) regulations to situations in which blood borne pathogens exist and need to be labeled and carefully handled.
		<b>FMM1.c.9.m:</b> Explore Integrated Pest Management practices (IPM).	<b>FMM1.c.15.h:</b> Select a pest control system appropriate for the facility and the type(s) of pests likely to be present.
	<b>FMM1.c.4.e:</b> Recognize the importance of proper hand washing.	<b>FMM1.c.10.m:</b> Analyze the effectiveness of proper hand washing.	<b>FMM1.c.16.h:</b> Research Centers for Disease Control (CDC) standards.
	<b>FMM1.c.5.e:</b> Recognize differences in people.	<b>FMM1.c.11.m:</b> Explore options to assist people with disabilities.	<b>FMM1.c.17.h:</b> Comply with Americans with Disabilities Act (ADA) regulations.
	<b>FMM1.d.1.e:</b> Explore recycling opportunities within the school.	<b>FMM1.d.6.m:</b> Practice a recycling program for conservation of resources.	<b>FMM1.d.12.h:</b> Carry out federal, state and other regulations regarding waste management.
	<b>FMM1.d.2.e:</b> Develop an on-site composting program.	<b>FMM1.d.7.m:</b> Explore options to reduce classroom waste.	<b>FMM1.d.13.h:</b> Demonstrate a waste minimization plan.
FMM1.d: Apply hazardous materials and waste management procedures.	FMM1.d.3.e: Explain the importance of honesty.	FMM1.d.8.m: Practice maintaining records of practices and procedures.	FMM1.d.14.h: Record presence of hazardous materials and occurrence of hazardous situations accurately and communicate to authorities.
	<b>FMM1.d.4.e:</b> Comprehend the dangers of chemicals as outlined by the Environmental Protection Agency (EPA).	<b>FMM1.d.9.m:</b> Identify hazardous materials and proper care.	<b>FMM1.d.15.h:</b> Describe procedures for safely handling and storing hazardous materials and waste products.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
	<b>FMM1.d.5.e:</b> Identify energy saving measures in the home and school.	<b>FMM1.d.10.m:</b> Develop a school wide initiative to conserve energy in classrooms.	<b>FMM1.d.16.h:</b> Design energy efficient methods.
		<b>FMM1.d.11.m:</b> Comprehend the importance of safe storage and disposal of pesticides.	<b>FMM1.d.17.h:</b> Demonstrate safe storage and disposals of pesticides.
	<b>FMM1.e.1.e:</b> Remember procedures for safety drills.	<b>FMM1.e.5.m:</b> Analyze current safety procedures utilized within your home.	<b>FMM1.e.10.h:</b> Design procedures for external and internal emergencies.
	<b>FMM1.e.2.e:</b> Comprehend the importance of following rules and safety procedures.	<b>FMM1.e.6.m:</b> Prepare safety and procedures in home and school.	FMM1.e.11.h: Apply security procedures.
<b>FMM1.e:</b> Demonstrate a work environment that provides safety and security.	<b>FMM1.e.3.e:</b> Identify use and care of equipment storage in the home and community.	<b>FMM1.e.7.m:</b> Apply skills necessary for the use, care and storage of equipment.	<b>FMM1.e.12.h:</b> Demonstrate safe procedures in the use, care and storage of equipment.
	<b>FMM1.e.4.e:</b> Recognize potential dangers involved in kitchens.	<b>FMM1.e.8.m:</b> Summarize the importance of safety as it relates to food safety and work safety.	FMM1.e.13.h: Apply safety and security procedures as required by Hazard Analysis and Critical Control Point (HACCP), Occupational Safety and Health Administrations (OSHA) and other agencies.
		<b>FMM1.e.9.m:</b> Review the importance of proper handling of infection and infectious materials.	<b>FMM1.e.14.h:</b> Apply procedures for control of infection and infectious materials.
	<b>FMM1.f.1.e:</b> Introduce care and proper handling of clothing and other textiles.	<b>FMM1.f.3.m:</b> Demonstrate standard laundry procedures.	FMM1.f.6.h: Summarize the functions of machines and equipment used in laundering operations.
<b>FMM1.f:</b> Demonstrate laundering processes aligned with industry standards and regulations.	<b>FMM1.f.2.e:</b> Identify the steps of laundering clothes.	<b>FMM1.f.4.m:</b> Learn proper laundering methods for clothing and other textiles.	<b>FMM1.f.7.h:</b> Apply procedures for the selection of textiles, chemicals and equipment associated with laundry.
		<b>FMM1.f.5.m:</b> Learn how to properly operate a laundry machine.	<b>FMM1.f.8.h:</b> Apply industry regulations to laundry/linen systems.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
	<b>FMM1.g.1.e:</b> Relate the importance of positive behavior versus negative behavior.	<b>FMM1.g.7.m:</b> Differentiate between positive/negative interactions with peers.	<b>FMM1.g.16.h:</b> Demonstrate quality customer service which exceeds customer expectations.
		<b>FMM1.g.8.m:</b> Identify employability skills needed in the workplace.	<b>FMM1.g.17.h:</b> Demonstrate the elements involved in staff planning, recruiting, interviewing, selecting, hiring and terminating of employees.
	<b>FMM1.g.2.e:</b> Follow time schedules in task analysis.	<b>FMM1.g.9.m:</b> Develop a time management outline.	<b>FMM1.g.18.h:</b> Design staff schedules.
FMM1.g: Demonstrate facilities management functions.	FMM1.g.3.e: Share with peers asset building traits.	<b>FMM1.g.10.m:</b> Conduct a peer to peer demonstration on how to do something.	<b>FMM1.g.19.h:</b> Conduct orientation, regular training and education and on the job training/retraining.
	FMM1.g.4.e: Use rubrics to create and self-evaluate projects.	<b>FMM1.g.11.m:</b> Develop a rubric as a means of evaluation of a project.	FMM1.g.20.h: Demonstrate techniques and strategies to measure work quality of employees.
	<b>FMM1.g.5.e:</b> List ways that you could save money.	FMM1.g.12.m: Create a budget plan to purchase a luxury item.	<b>FMM1.g.21.h:</b> Apply principles of purchasing and receiving in facility management operations.
		<b>FMM1.g.13.m:</b> Identify ways to conserve resources.	<b>FMM1.g.22.h:</b> Implement procedures to control inventory.
		<b>FMM1.g.14.m:</b> Uses mathematical practices to analyze cost savings of resources.	FMM1.g.23.h: Apply accounting principles in planning, forecasting and recording profit and loss.
	<b>FMM1.g.6.e:</b> Explore advertising methods.	FMM1.g.15.m: Analyze impact of advertising in the media.	<b>FMM1.g.24.h:</b> Develop a marketing plan for a business or department.



Content Area: F/Family

**Standard: F1:** Students will evaluate the significance of family and its effects on the well-being of individuals and society.

	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
<b>F1.a:</b> Analyze the effects of family as a system on individuals and society.	<b>F1.a.1.e:</b> Discuss what makes a family.	<b>F1.a.4.m:</b> Analyze family as the basic unit of society.	<b>F1.a.7.h:</b> Analyze the role of family in transmitting societal expectations.
	<b>F1.a.2.e:</b> Discuss the various types of families.	<b>F1.a.5.m:</b> Identify global influences on today's families.	<b>F1.a.8.h:</b> Analyze the role of family in developing independence, interdependence and commitment of family members.
	<b>F1.a.3.e:</b> Describe titles for family members (i.e., Aunt, Uncle, Cousin).	<b>F1.a.6.m:</b> Recognize the role of family in teaching culture and traditions across the life span.	<b>F1.a.9.h:</b> Analyze the ways family and consumer sciences careers assist the work of the family.
<b>F1.b:</b> Evaluate the effects of diverse perspectives, needs and characteristics of individual and families.	<b>F1.b.1.e:</b> Identify different kinds of family structures.	<b>F1.b.2.m:</b> Demonstrate respect for diversity with sensitivity to anti-bias, gender, equity, age, culture and ethnicity.	<b>F1.b.4.h:</b> Demonstrate awareness of multiple diversities and their effects on individuals, families and society.
		<b>F1.b.3.m:</b> Recognize the effects of empathy for diversity on individuals in family, work and community settings.	<b>F1.b.5.h:</b> Analyze the effects of social and cultural diversity on individual and families.
			<b>F1.b.6.h:</b> Analyze the effects of globalization and increasing diversity on individuals, families and society.



**Content Area: FCS/Family and Community Services** 

**Standard: FCS1:** Students will synthesize knowledge, skills and practices required for careers in family and community services.

	Per	formance Indicators (By Grade Ba	
Learning Priority	PK-5	6-8	9-12
	FCS1.a.1.e: Discuss individual knowledge of different careers present in individual families and in the community.	<b>FCS1.a.5.m:</b> Explain the roles and functions of individuals engaged in family and community services careers.	<b>FCS1.a.11.h:</b> Demonstrate the roles and functions of individuals engaged in family and community services careers.
	FCS1.a.2.e: Identify ways to make money.	<b>FCS1.a.6.m:</b> Explore opportunities, including education, for employment and entrepreneurial endeavors.	FCS1.a.12.h: Analyze opportunities for employment and entrepreneurial endeavors.
FCS1.a: Analyze career paths within family		FCS1.a.7.m: List ways in which spending has an impact on the economy and careers.	FCS1.a.13.h: Summarize education and training requirements and opportunities for career paths in family and community services.
and community.	FCS1.a.3.e: Demonstrate entrepreneurship to help those in need around the world.	<b>FCS1.a.8.m:</b> Examine the effects of family and community service occupations on local, state, national and global economies.	FCS1.a.14.h: Analyze and reflect the effects of family and community service occupations on local, state, national and global economies.
		<b>FCS1.a.9.m:</b> Discuss the use of cover letters, resumes and interviewing.	FCS1.a.15.h: Demonstrate job acquisition skills to gain work-based learning opportunities and employment in family and community services careers.
	FCS1.a.4.e: Participate in a parent/career day.	FCS1.a.10.m: Explore the role of CTSO's in family and community services professions.	FCS1.a.16.h: Analyze the role of professional organizations in family and community services professions.
<b>FCS1.b:</b> Analyze factors relating to providing family and community services.		<b>FCS1.b.2.m:</b> Explain the role of professional organizations to families and communities.	FCS1.b.8.h: Describe local, state and national agencies and informal resources providing services.
		<b>FCS1.b.3.m:</b> Discuss ethics and morals and identify its importance to family and community.	FCS1.b.9.h: Analyze professional, ethical, legal and safety issues that confront human service employees.
		<b>FCS1.b.4.m:</b> Brainstorm laws and regulations that are specifically related to family and community services.	FCS1.b.10.h: Summarize licensing laws and regulations that affect service providers and their participants.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
		<b>FCS1.b.5.m:</b> Summarize the rights and responsibilities of human service participants and their families.	<b>FCS1.b.11.h:</b> Analyze harmful, fraudulent and deceptive human services practices.
	FCS1.b.1.e: Discuss the ways bullying (harassment) affects individuals as family and community members.	FCS1.b.6.m: List several ways to advocate for the rights of a community group.	FCS1.b.12.h: Analyze effective individual and family advocacy and self-advocacy strategies to overcome diverse challenges.
		FCS1.b.7.m: Identify several local, state and national community agencies and their mission.	<b>FCS1.b.13.h:</b> Analyze community-networking opportunities in family and community services.
FCS1.c: Demonstrate professional behaviors, skills and knowledge in providing family and community services.	FCS1.c.1.e: Demonstrate school rules.	FCS1.c.5.m: Identify the correlation between school and work policies and regulations.	FCS1.c.11.h: Apply rules, regulations and work site policies that affect employer, employee, participant and family rights and responsibilities.
	FCS1.c.2.e: Learn about cooperation.	<b>FCS1.c.6.m:</b> Participate in a team collaboration activity.	FCS1.c.12.h: Demonstrate professional and ethical collaborative relationships with colleagues, support teams, participants and families.
		FCS1.c.7.m: Discuss the meaning of confidentiality.	FCS1.c.13.h: Maintain accurate and confidential documentation to be submitted in a timely manner to appropriate sources.
	FCS1.c.3.e: Identify technology resources.	FCS1.c.8.m: Identify personal qualities through formal and informal assessment that examine needs, preferences and interests across the life span	<b>FCS1.c.14.h:</b> Analyze participants' strengths, needs, preferences and interests across the life span.
		FCS1.c.9.m: Select community resources which allow families to receive support services and programs through various technologies.	FCS1.c.15.h: Demonstrate use of technology in human services.
	FCS1.c.4.e: Practices listening strategies to utilize verbal and nonverbal communication.	FCS1.c.10.m: Identify appropriate communication techniques as a professional.	FCS1.c.16.h: Demonstrate strategies for effective communication.



	Per	formance Indicators (By Grade Ba	and)
Learning Priority	PK-5	6-8	9-12
	<b>FCS1.d.1.e:</b> Engaging in community service activity to meet the needs of a disadvantaging condition.	FCS1.d.3.m: Discuss issues and concerns of poverty diversity for individuals, families and communities.	FCS1.d.8.h: Assess health, wellness and safety issues of individual and families with a variety of challenging conditions.
			FCS1.d.9.h: Analyze management and living environment issues of individuals and families with a variety of challenging conditions.
FCS1.d: Evaluate conditions affecting individuals and families with a variety of		FCS1.d.4.m: Discuss socioeconomic status and economic limitations for individuals, families and communities.	FCS1.d.10.h: Analyze personal, social, emotional, economic, vocational, educational and recreational issues for individuals and family with a variety of challenging conditions.
conditions.	FCS1.d.2.e: Identify ways in which you can advocate for self and situations which require adult Intervention.	<b>FCS1.d.5.m:</b> Define skills necessary in advocacy and prevention.	FCS1.d.11.h: Discriminate between situations that require personal prevention or intervention and those situations that require professional assistance.
		FCS1.d.6.m: Identify crisis situations and discuss how these affect individuals, families and communities.	FCS1.d.12.h: Analyze situations which require crisis intervention.
		FCS1.d.7.m: List people, agencies and other community resources that assist individuals and families.	<b>FCS1.d.13.h:</b> Summarize the appropriate support needed to address selected human services issues.
	<b>FCS1.e.1.e:</b> Discuss how personal differences can contribute to conflicting individual issues.	<b>FCS1.e.4.m:</b> Discuss examples of diverse groups working to resolve conflict issues.	<b>FCS1.e.10.h:</b> Describe needs and accommodations for people with a variety of challenging conditions.
<b>FCS1.e:</b> Evaluate services for individuals and families with a variety of conditions.		FCS1.e.5.m: Discuss ways families are affected by individual changes.	FCS1.e.11.h: Analyze ways in which individuals with challenging conditions affect the family and family members financially, socially, physically and emotionally.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
		FCS1.e.6.m: Identify coping skills strategies for a variety of disadvantaging conditions.	FCS1.e.12.h: Illustrate coping or adjustment strategies and stress management practices for the participant, a caregiver and family members.
		FCS1.e.7.m: Describe several community support systems for families.	FCS1.e.13.h: Summarize the importance of friends, family and community relationships for an individual with a variety of challenging conditions.
			FCS1.e.14.h: Demonstrate ways to provide support that validates the participants' capabilities and right to privacy, dignity and autonomy.
	<b>FCS1.e.2.e:</b> Discuss reasons why people use goal setting.	FCS1.e.8.m: Discuss goal setting strategies and ways in which they help individuals, families and communities.	FCS1.e.15.h: Demonstrate strategies that help participants make informed choices, access resources and utilize leadership strategies.
	FCS1.e.3.e: Practice appropriate speaking and listening skills.	<b>FCS1.e.9.m:</b> Discuss use of verbal and nonverbal communications in a variety of situations.	FCS1.e.16.h: Demonstrate verbal and nonverbal communication skills that support individuals and families with a variety of challenging conditions.



**Content Area: FPS/Food Production and Services** 

Standard: FPS1: Students will integrate knowledge, skills and practices required for careers in food production and services.

	Per	formance Indicators (By Grade B	and)
Learning Priority	PK-5	6-8	9-12
<b>FPS1.a:</b> Analyze career paths within the food production and food services industries.	FPS1.a.1.e: Name the jobs of people who work with food.	FPS1.a.4.m: Explain the roles, duties and functions of individuals engaged in food production and services careers.	FPS1.a.8.h: Summarize education and training requirements and opportunities for career paths in food production and services.
	<b>FPS1.a.2.e:</b> Identify jobs/careers in a restaurant/food processing company.	<b>FPS1.a.5.m:</b> Analyze opportunities for employment and entrepreneurial endeavors.	<b>FPS1.a.9.h:</b> Analyze the effects of food production and services occupations on local, state, national and global economies.
	<b>FPS1.a.3.e:</b> Match photos of workers with job titles.	<b>FPS1.a.6.m:</b> Discuss qualities of a good employee.	<b>FPS1.a.10.h:</b> Create an employment portfolio for use with applying for internships and work-based learning opportunities.
		<b>FPS1.a.7.m:</b> Explore the role of professional organizations in food production and services.	<b>FPS1.a.11.h:</b> Analyze the role of professional organizations in food production and services.
<b>FPS1.b:</b> Demonstrate food safety and sanitation procedures.	<b>FPS1.b.1.e:</b> Learn proper hand washing procedures.	<b>FPS1.b.10.m:</b> Recognize how germs spread in foods.	<b>FPS1.b.19.h:</b> Identify characteristics of major food borne pathogens, their role in causing illnesses, foods involved in outbreaks and methods of prevention.
	<b>FPS1.b.2.e:</b> Tell how to call for help if someone is hurt.	<b>FPS1.b.11.m:</b> Demonstrate basic first aid techniques and hand washing procedures.	<b>FPS1.b.20.h:</b> Employ food service management safety/sanitation program procedures, including CPR and First aid.
	<b>FPS1.b.3.e:</b> Identify the causes and prevention of food borne illnesses.	<b>FPS1.b.12.m:</b> Report on a current food borne illness or outbreak.	FPS1.b.21.h: Use knowledge of systems for documenting, investigating, reporting and preventing food borne illnesses.
	<b>FPS1.b.4.e:</b> Determine the importance of proper storage of food items in relationship to prevention of food borne illnesses.	<b>FPS1.b.13.m:</b> Distinguish between refrigerated, freezer and room temperature food storage.	FPS1.b.22.h: Use the Hazard Analysis Critical Control Point (HACCP) and crisis management principles and procedures during food handling processes to minimize the risks of food borne illnesses.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
	<b>FPS1.b.5.e:</b> Describe how to brush teeth and keep your body clean.	FPS1.b.14.m: Identify signs of illnesses that would result in staying home from school or work.	FPS1.b.23.h: Practice good personal hygiene/health procedures, including dental health and weight managements and report systems of illness.
	FPS1.b.6.e: Explore proper handling of both raw and prepared foods.	FPS1.b.15.m: Check proper purchasing, receiving, storage and handling of both raw and prepared foods through case studies.	<b>FPS1.b.24.h:</b> Demonstrate proper purchasing, receiving, storage and handling of both raw and prepared foods.
	FPS1.b.7.e: Recite (List) when and why hands should be washed.	<b>FPS1.b.16.m:</b> Identify protein foods found at home and in a restaurant and explain how to prevent cross contamination with those foods.	FPS1.b.25.h: Demonstrate safe food handling and preparation techniques that prevent cross contamination from potentially hazardous foods, between raw and ready-to-eat foods and between animal and fish sources and other food products.
	<b>FPS1.b.8.e:</b> Recognize the dangers of chemicals as outlined by the EPA (Environmental Protection Agency).	FPS1.b.17.m: Analyze current types of cleaning materials and sanitizers for proper uses and safety hazards.	FPS1.b.26.h: Use Occupational Safety and Health Administration's (OSHA) Right to Know Law and Materials Safety Data Sheets (MSDS) and explain their requirements in safe handling and storage of hazardous materials.
	FPS1.b.9.e: Devise a recycling program within the classroom.	FPS1.b.18.m: Demonstrate safe and environmentally responsible waste disposal and recycling methods.	FPS1.b.27.h: Demonstrate ability to maintain necessary records to document time and temperature control, HACCP, employee health, maintenance of equipment and other elements of food preparation, storage and presentation.
FPS1.c: Demonstrate industry standards in selecting, using and maintaining food	FPS1.c.1.e: Label common cooking tools and equipment.	<b>FPS1.c.5.m:</b> Demonstrate proper usage of common cooking tools and equipment.	FPS1.c.9.h: Operate tools and equipment following safety procedures and OSHA requirements.
production and food service equipment.	FPS1.c.2.e: Identify common cooking tools and equipment.	<b>FPS1.c.6.m:</b> Store common cooking tools and equipment in a safe manner.	FPS1.c.10.h: Maintain tools and equipment following safety procedures and OSHA requirements.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
	FPS1.c.3.e: Describe how to wash and dry dishes.	<b>FPS1.c.7.m:</b> Demonstrate how to properly wash and sanitize dishes and cooking surfaces.	FPS1.c.11.h: Demonstrate procedures for cleaning and sanitizing equipment, serving dishes, glassware and utensils to meet industry standards and OSHA requirements.
	FPS1.c.4.e: List the cooking tools and equipment.	<b>FPS1.c.8.m:</b> Use cooking tools and equipment needed to prepare a class recipe.	<b>FPS1.c.12.h:</b> Analyze equipment purchases based on long-term business needs, specific regulations and codes related to foods.
	FPS1.d.1.e: Recall what you ate for dinner and compare it to USDA "myplate."	FPS1.d.3.m: Analyze and modify restaurant menus according to principles of menu planning.  FPS1.d.4.m: Plan sample menus for home and family situations.	FPS1.d.8.h: Use computer based menu systems to develop and modify menus.  FPS1.d.9.h: Apply menu-planning principles to develop and modify
FPS1.d: Demonstrate menu planning principles and techniques based on standardized recipes to meet customer needs.	FPS1.d.2.e: Identify cooking tools and equipment.	FPS1.d.5.m: Prepare a list of cooking tools and equipment needed for menus.	menus.  FPS1.d.10.h: Analyze food, equipment and supplies needed for menus.
		<b>FPS1.d.6.m:</b> Develop a variety of menu layouts, themes and design styles.	<b>FPS1.d.11.h:</b> Prepare requisitions for food, equipment and supplies to meet production requirements.
		<b>FPS1.d.7.m:</b> Observe computer based menu systems at the high school or in work place situations.	<b>FPS1.d.12.h:</b> Record performance of menu items to analyze sales and determine menu revisions.
	<b>FPS1.e.1.e:</b> Identify knife safety and other safety steps around sharp objects in the food service industry.	<b>FPS1.e.12.m:</b> Demonstrate basic skills in handling knives, tools and equipment safely.	<b>FPS1.e.26.h:</b> Demonstrate professional skills in safe handling of knives, tools and equipment.
<b>FPS1.e:</b> Demonstrate professional food preparation methods and techniques for all menu categories to produce a variety of food products that meet customer needs.		<b>FPS1.e.13.m:</b> Identify tools used in kitchen preparation and service.	FPS1.e.27.h: Demonstrate professional skills for a variety of cooking methods including roasting, broiling, smoking, grilling, sautéing, pan frying, deep frying, braising, stewing, poaching, steaming and baking using professional equipment and current technologies.



	Pe	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12	
	FPS1.e.2.e: Explore basic kitchen measuring devices and tools.	<b>FPS1.e.14.m:</b> Apply measurement skills in a class recipe.	<b>FPS1.e.28.h:</b> Utilize weights and measurement tools to demonstrate knowledge of portion control and proper scaling and measurement techniques.	
	<b>FPS1.e.3.e:</b> Manipulate the use of a food thermometer.	FPS1.e.15.m: Demonstrate how to use a food thermometer.	FPS1.e.29.h: Apply the fundamentals of time, temperature and cooking methods to cooking, cooling, reheating and holding of variety of foods.	
	<b>FPS1.e.4.e:</b> Associate illnesses caused by improper handling of meat, seafood or poultry.	FPS1.e.16.m: Prepare a class recipe using meat, seafood or poultry by demonstrating basic safe handling techniques.	FPS1.e.30.h: Prepare various meats, seafood and poultry using safe handling and professional preparation techniques	
		<b>FPS1.e.17.m:</b> Prepare a soup recipe.	FPS1.e.31.h: Prepare various stocks, soups and sauces using safe handling and professional preparation techniques.	
	<b>FPS1.e.5.e:</b> Prepare a basic recipe using fruits and vegetables.	<b>FPS1.e.18.m:</b> Prepare recipes with fruit, vegetables or dairy products.	FPS1.e.32.h: Prepare various fruits, vegetables, starches, legumes, dairy products, fats and oils using safe handling and professional preparation techniques.	
	<b>FPS1.e.6.e:</b> Identify basic ingredients needed to compose a salad.	<b>FPS1.e.19.m:</b> Prepare a salad and salad dressing.	FPS1.e.33.h: Prepare various salads, dressings, marinades and spices using safe handling and professional preparation techniques.	
	FPS1.e.7.e: Prepare a sandwich.	FPS1.e.20.m: Prepare a sandwich, canapé or appetizer.	FPS1.e.34.h: Prepare sandwiches, canapés and appetizers using safe handling and professional preparation techniques.	
	<b>FPS1.e.8.e:</b> Identify ingredients commonly used when making baked goods and dessert.	<b>FPS1.e.21.m:</b> Prepare baked goods or desserts.	FPS1.e.35.h: Prepare breads, baked goods and desserts using safe handling and professional preparation techniques.	



	Per	rformance Indicators (By Grade B	and)
Learning Priority	PK-5	6-8	9-12
	<b>FPS1.e.9.e:</b> Identify healthful options when creating breakfast foods.	FPS1.e.22.m: Prepare a breakfast.	<b>FPS1.e.36.h:</b> Prepare breakfast meats, eggs, cereals and batter products using safe handling and professional preparation techniques.
		<b>FPS1.e.23.m:</b> Identify garnishes on photos of food.	<b>FPS1.e.37.h:</b> Demonstrate professional plating, garnishing and food presentation techniques.
	<b>FPS1.e.10.e:</b> List common examples of convenience foods.	FPS1.e.24.m: Compare and contrast convenience foods used in the menu based on cost, time and use of resources.	<b>FPS1.e.38.h:</b> Examine the applicability of convenience food items.
	<b>FPS1.e.11.e:</b> Identify low fat snack or entrée options.	FPS1.e.25.m: Prepare a low fat snack or entrée.	<b>FPS1.e.39.h:</b> Demonstrate cooking methods that increase nutritional value, lower calorie and fat content and utilize herbs and spices to enhance flavor.
<b>FPS1.f:</b> Demonstrate implementation of food service management and leadership functions.		FPS1.f.2.m: Recognize the differences between food expirations or best if used by labels.	<b>FPS1.f.12.h:</b> Apply principles of purchasing, receiving, issuing and storing in food service operations.
		<b>FPS1.f.3.m:</b> Arrange an order of food according to FIFO inventory procedures.	FPS1.f.13.h: Practice inventory procedures including first in/first out concept, date marking and specific record keeping.
		<b>FPS1.f.4.m:</b> Compare a cost serving of foods in a variety of menus.	FPS1.f.14.h: Apply accounting procedures in planning and forecasting profit and loss.
		<b>FPS1.f.5.m:</b> List a variety of legal responsibilities and liabilities in the food service industry.	<b>FPS1.f.15.h:</b> Examine the areas of risk management and legal liability within the food service industry.
		<b>FPS1.f.6.m:</b> Differentiate between discrimination and harassment in the workplace.	FPS1.f.16.h: Apply human resource policies including rules, regulations, laws, hiring, compensation, overtime, discrimination and harassment.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
		<b>FPS1.f.7.m:</b> Participate in a mock job interview.	<b>FPS1.f.17.h:</b> Apply the procedures involved in staff planning, recruiting, interviewing, selecting, scheduling, performance, reviewing and terminating of employees.
		FPS1.f.8.m: Demonstrate a skill necessary that could lead to successful employment.	FPS1.f.18.h: Conduct staff orientation, training, consistent reinforcement of training standards and education and on the job training/retraining.
		FPS1.f.9.m: Market a new food innovation.	<b>FPS1.f.19.h:</b> Implement marketing plan for food service operations.
	FPS1.f.1.e: Recite safety drill procedures.	<b>FPS1.f.10.m:</b> Outline family safety plan.	FPS1.f.20.h: Design internal/external crisis management and disaster plans and response procedures.
		FPS1.f.11.m: Develop a time management outline for creating a meal item.	FPS1.f.21.h: Apply principles of inventory management, labor cost and control techniques, production planning and control and facilities management to front and back of the house operations.
	FPS1.g.1.e: Role play respectful communications.	<b>FPS1.g.3.m:</b> Discuss when you have experienced good/poor service at a restaurant.	FPS1.g.7.h: Analyze the role of quality service as a strategic component of exceptional performance.
<b>FPS1.g:</b> Demonstrate the concept of internal and external customer service.		<b>FPS1.g.4.m:</b> Demonstrate quality service that meets industry standard in the food service industry.	FPS1.g.8.h: Analyze the relationship between employees and customer satisfaction by discussing the consequences of communication (positive and negative)'
		<b>FPS1.g.5.m:</b> Verbal and non-verbal communication strategies used in interpersonal relationships.	FPS1.g.9.h: Apply strategies for addressing and resolving complaints.
	FPS1.g.2.e: Demonstrate compassion when dealing with diversity and individuals with special needs.	<b>FPS1.g.6.m:</b> Demonstrate sensitivity to diversity and individuals with special needs.	FPS1.g.10.h: Demonstrate competence in listening and speaking in managing and communicating in a variety of situations.



Content Area: FSDN/Food Science, Dietetics and Nutrition

**Standard: FSDN1:** Students will integrate the knowledge, skills and practices required for careers in food science, food technology, dietetics and nutrition.

	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
	<b>FSDN1.a.1.e:</b> Develop awareness of food related careers.	<b>FSDN1.a.7.m:</b> Identify potential careers in food science, technology, dietetics and nutrition.	<b>FSDN1.a.13.h:</b> Analyze the roles and function of individuals engaged in food science, food technology, dietetics and nutrition careers.
	<b>FSDN1.a.2.e:</b> Develop awareness of food related employers.	<b>FSDN1.a.8.m:</b> Identify potential employers in food science, technology, dietetics and nutrition.	FSDN1.a.14.h: Analyze opportunities for employment and entrepreneurial endeavors.
FSDN1.a: Analyze career paths within food science, food technology, dietetics and nutrition industries.	<b>FSDN1.a.3.e:</b> Identify careers related to food.	FSDN1.a.9.m: Explore various career pathways for food related occupations by researching careers and define values supported by a career decision making.	FSDN1.a.15.h: Summarize education and training requirements and opportunities for career paths in food science, food technology, dietetics and nutrition.
	FSDN1.a.4.e: Identify healthy choices.	<b>FSDN1.a.10.m:</b> Research the impact of our choices on our health.	<b>FSDN1.a.16.h:</b> Analyze the impact of food science, dietetics and nutrition.
	<b>FSDN1.a.5.e:</b> Identify job skills in completing tasks in work.	FSDN1.a.11.m: Identify skills, knowledge and dispositions that are necessary to work in the food service, dietetics and nutrition industries.	FSDN1.a.17.h: Create an employment portfolio for use with applying for internships and work based learning opportunities in food science, food technology, dietetics and nutrition careers.
	<b>FSDN1.a.6.e:</b> Identify benefits of belonging to a club organization or team.	<b>FSDN1.a.12.m:</b> Explore professional organizations and the purpose(s) they serve.	<b>FSDN1.a.18.h:</b> Analyze the role of professional organizations in food science, food technology, dietetics and nutrition careers.
<b>FSDN1.b:</b> Apply risk management procedures to food safety, food testing and sanitation.	<b>FSDN1.b.1.e:</b> Practice proper food and personal safety & hygiene.	<b>FSDN1.b.9.m:</b> Explore food borne illness and discover ways to reduce the spread of microorganisms.	<b>FSDN1.b.18.h:</b> Analyze factors that contribute to food borne illness.
		<b>FSDN1.b.10.m:</b> Explain the importance of safety and sanitation procedures used by food service professionals.	<b>FSDN1.b.19.h:</b> Analyze food service management safety and sanitation programs.



	Performance Indicators (By Grade Band)		
<b>Learning Priority</b>	PK-5	6-8	9-12
	FSDN1.b.2.e: Explain the importance of hand-washing in reducing the number of microorganisms during food production.	<b>FSDN1.b.11.m:</b> Investigate documented food borne illness outbreaks.	<b>FSDN1.b.20.h:</b> Implement industry standards for documenting, investigating and reporting food borne illness.
	<b>FSDN1.b.3.e:</b> Identify when hands should be washed when handling food.	<b>FSDN1.b.12.m:</b> Identify potential sources of food contamination between the origin of food and consuming the food.	<b>FSDN1.b.21.h:</b> Use HACCP during all food handling processes to minimize the risk of food borne illness.
	<b>FSDN1.b.4.e:</b> Practice personal hygiene.	<b>FSDN1.b.13.m:</b> Recognize principles of personal and work place health and hygiene.	<b>FSDN1.b.22.h:</b> Demonstrate practices and procedures that assure personal and workplace health and hygiene.
	<b>FSDN1.b.5.e:</b> Identify locations of proper food storage.	<b>FSDN1.b.14.m:</b> Practice proper storage of food.	<b>FSDN1.b.23.h:</b> Demonstrate standard procedures for receiving and storage of raw and prepared foods.
	<b>FSDN1.b.6.e:</b> Practice applying proper sanitation procedures.	<b>FSDN1.b.15.m:</b> Demonstrate applying proper sanitation procedures.	<b>FSDN1.b.24.h:</b> Classify current types of cleaning materials and sanitizers and their proper use.
	<b>FSDN1.b.7.e:</b> Identify hazardous materials.	<b>FSDN1.b.16.m:</b> Discuss safely handling hazardous materials.	FSDN1.b.25.h: Use OSHA Right to Know Law and MSDS and explain their requirements in handling hazardous materials.
	<b>FSDN1.b.8.e:</b> Identify recyclable materials.	<b>FSDN1.b.17.m:</b> Demonstrate waste disposal and recycling methods.	<b>FSDN1.b.26.h:</b> Analyze waste disposal and recycling methods.
	FSDN1.c.1.e: Identify nutrients.	<b>FSDN1.c.6.m:</b> Discover the functions of nutrients to meet dietary needs.	<b>FSDN1.c.13.h:</b> Analyze nutrient requirements across the life span addressing the diversity of people, culture and religions.
<b>FSDN1.c:</b> Evaluate nutrition principles, food plans, preparation techniques and	<b>FSDN1.c.2.e:</b> Discuss nutritional information.	<b>FSDN1.c.7.m:</b> Identify reliable sources of nutrition information.	<b>FSDN1.c.14.h:</b> Analyze nutritional data.
specialized dietary plans.	<b>FSDN1.c.3.e:</b> Identify ways to prepare food.	<b>FSDN1.c.8.m:</b> Practice food production techniques used to prepare food.	<b>FSDN1.c.15.h:</b> Apply principles of food production to maximize nutrient retention in prepared foods.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
		<b>FSDN1.c.9.m:</b> Demonstrate the ability to apply a decision making process to food choices.	<b>FSDN1.c.16.h:</b> Assess the influence of socio-economic and psychological factors on food and nutrition behavior.
	FSDN1.c.4.e: Identify unit measurements.	<b>FSDN1.c.10.m:</b> Practice recipe conversions.	<b>FSDN1.c.17.h:</b> Analyze recipe/formula proportions and modifications for food production.
		<b>FSDN1.c.11.m:</b> Compare food options for health benefits.	<b>FSDN1.c.18.h:</b> Critique the selection of foods to promote a healthy lifestyle.
	<b>FSDN1.c.5.e:</b> Identify food groups.	<b>FSDN1.c.12.m:</b> Categorize foods into exchange groups.	<b>FSDN1.c.19.h:</b> Plan menus, applying the exchange system to meet various nutrient needs.
	<b>FSDN1.d.1.e:</b> Define nutrition.	<b>FSDN1.d.5.m:</b> Identify nutritional needs of individuals.	<b>FSDN1.d.10.h:</b> Analyze nutritional needs of individuals.
	<b>FSDN1.d.2.e:</b> Identify appropriate serving sizes.	<b>FSDN1.d.6.m:</b> Compare food labels, portions and serving sizes to aide in decision making.	<b>FSDN1.d.11.h:</b> Use nutritional information to support care planning.
<b>FSDN1.d:</b> Apply basic concepts of nutrition and nutritional therapy in a variety of		<b>FSDN1.d.7.m:</b> Identify factors that affect menu choices.	<b>FSDN1.d.12.h:</b> Utilize a selective menu.
settings.	<b>FSDN1.d.3.e:</b> Identify health conditions that need nutritional needs.	<b>FSDN1.d.8.m:</b> Discuss a modified diet based on nutritional need and health conditions.	<b>FSDN1.d.13.h:</b> Construct a modified diet based on nutritional need and health conditions.
	<b>FSDN1.d.4.e:</b> Discuss disease prevention related to health practices.	<b>FSDN1.d.9.m:</b> Identify ways to maintain health and prevent disease.	<b>FSDN1.d.14.h:</b> Design instruction on nutrition for health maintenance and disease prevention.
	<b>FSDN1.e.1.e:</b> Identify ways to market food.	<b>FSDN1.e.4.m:</b> Identify factors that affect food preferences in the marketing of food.	<b>FSDN1.e.11.h:</b> Analyze various factors that affect food preferences in the marketing of food.
FSDN1.e: Demonstrate use of current technology in food product development		<b>FSDN1.e.5.m:</b> Conduct a survey to assist in decision making in making development and marketing decisions.	<b>FSDN1.e.12.h:</b> Analyze data in statistical analysis in making development and marketing decisions.
and marketing.		<b>FSDN1.e.6.m:</b> Prepare food for presentation and assessment.	<b>FSDN1.e.13.h:</b> Research food for presentation and assessment.
	<b>FSDN1.e.2.e:</b> Identify kitchen equipment and supplies.	<b>FSDN1.e.7.m:</b> Demonstrate the proper use of equipment and supplies.	FSDN1.e.14.h: Maintain test kitchen/laboratory and related equipment and supplies.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
		<b>FSDN1.e.8.m:</b> Identify procedures that affect quality product performance.	<b>FSDN1.e.15.h:</b> Implement procedures that affect quality product performance.
	<b>FSDN1.e.3.e:</b> Identify the senses.	<b>FSDN1.e.9.m:</b> Evaluate food products.	<b>FSDN1.e.16.h:</b> Conduct sensory evaluations of food products.
		<b>FSDN1.e.10.m:</b> Research product safety.	<b>FSDN1.e.17.h:</b> Conduct testing for safety of food products, utilizing available technology.
	<b>FSDN1.f.1.e:</b> Discuss likes and dislikes.	<b>FSDN1.f.6.m:</b> Identify food preferences for individuals and families.	<b>FSDN1.f.15.h:</b> Build menus to customer/ client preferences.
		<b>FSDN1.f.7.m:</b> Compare and contrast food preparation and production.	<b>FSDN1.f.16.h:</b> Implement food preparation, production and testing systems.
		<b>FSDN1.f.8.m:</b> Identify food quality standards.	<b>FSDN1.f.17.h:</b> Apply standards for food quality.
	FSDN1.f.2.e: Locate a recipe.	<b>FSDN1.f.9.m:</b> Practice writing recipes.	<b>FSDN1.f.18.h:</b> Create standardized recipes.
<b>FSDN1.f:</b> Demonstrate food science, dietetics and nutrition management		<b>FSDN1.f.10.m:</b> Describe how factors such as age, physical activity and gender affect nutritional requirements.	<b>FSDN1.f.19.h:</b> Manage amounts of food to meet needs of customers, clients.
principles and practices.	<b>FSDN1.f.3.e:</b> Identify new food products.	<b>FSDN1.f.11.m:</b> Develop new food products.	<b>FSDN1.f.20.h:</b> Analyze new food products.
	<b>FSDN1.f.4.e:</b> Identify ways to save money.	<b>FSDN1.f.12.m:</b> Identify cost effective procedures.	<b>FSDN1.f.21.h:</b> Implement procedures that provide cost effective products.
		<b>FSDN1.f.13.m:</b> Create an order form.	<b>FSDN1.f.22.h:</b> Establish par levels for the purchase of supplies based on an organization's needs.
	<b>FSDN1.f.5.e:</b> Demonstrate proper hand washing practices.	FSDN1.f.14.m: Demonstrate Food Code Points of time, temperature, date marking, cross contamination, hand washing and personal hygiene as criteria for safe food preparation.	FSDN1.f.23.h: Utilize Food Code Points of time, temperature, date markings, cross contamination, hand washing and personal hygiene as criteria for safe food preparation.



Content Area: HTR/Hospitality, Tourism and Recreation

**Standard:** HTR1: Students will synthesize knowledge, skills and practices required for careers in hospitality, tourism and recreation.

	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
HTR1.a: Analyze career paths within the hospitality, tourism and recreation industries.	HTR1.a.1.e: Examine roles and functions of individuals engaged in hospitality, tourism and recreation careers.	HTR1.a.4.m: Explore skills needed to relate to others who work in the hospitality industry.	HTR1.a.8.h: Explain the roles and functions of individuals engaged in hospitality, tourism and recreation careers.
	HTR1.a.2.e: Examine careers within the hospitality, tourism and recreation industry.	HTR1.a.5.m: Describe careers within the hospitality, tourism and recreation industry.	HTR1.a.9.h: Analyze opportunities for employment in hospitality, tourism and recreation careers.
	HTR1.a.3.e: Examine the employment trends in employment in the hospitality, tourism and recreation industry.	HTR1.a.6.m: Describe the employment trends in employment in the hospitality, tourism and recreation industry.	HTR1.a.10.h: Summarize education and training requirements and opportunities for career paths in hospitality, tourism and recreation careers.
			HTR1.a.11.h: Analyze the impact of hospitality occupations on local, state, national and global economies.
			HTR1.a.12.h: Create an employment portfolio for use with applying for internships and workbased learning opportunities in hospitality, tourism and recreation careers.
		HTR1.a.7.m: Explore the role of professional organizations in the hospitality, tourism and recreation professions.	HTR1.a.13.h: Analyze the role of professional organizations in the hospitality, tourism and recreation professions.
HTR1.b: Demonstrate procedures applied to safety, security and environmental issues.		HTR1.b.3.m: Explain the present standards for meeting safety, security and environmental issues within the hospitality industry.	HTR1.b.7.h: Explain the importance of safety, security and environmental issues related to the hospitality, tourism and recreation industries.
		HTR1.b.4.m: Explain the positive and negative influences of safety, security and environmental issues.	HTR1.b.8.h: Demonstrate procedures for assuring guest or customer safety.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
	HTR1.b.1.e: Practice evacuation	HTR1.b.5.m: Develop evacuation	HTR1.b.9.h: Evaluate evacuation
	plans and emergency procedures.	plans and emergency procedures.	plans and emergency procedures.
	HTR1.b.2.e: Explore ways to	HTR1.b.6.m: Develop ways to	HTR1.b.10.h: Demonstrate
	conserve resources.	conserve resources.	management and conservation of
			resources for energy efficiency and
			protection of the environment.
			HTR1.b.11.h: Design a system for
			documenting, investigating and
			taking action on safety, security and
			environmental issues.
		HTR1.c.2.m: Practice methods to	HTR1.c.6.h: Apply industry
		exceed the expectations of	standards for service methods that
		customers.	meet expectations of guests or
		UTD4 - 2 Di	customers.
		HTR1.c.3.m: Discuss personal traits that affect successful	HTR1.c.7.h: Analyze the
		customer satisfaction.	relationship between employee attitude, appearance and actions
		customer satisfaction.	and guest or customer satisfaction.
			HTR1.c.8.h: Apply a system to
HTR1.c: Apply concepts of quality service to			evaluate and resolve employee,
assure customer satisfaction.			employer, guest or customer
			complaints (General Employability).
		HTR1.c.4.m: Employ strategies for	HTR1.c.9.h: Analyze effects of
		resolving complaints.	customer relations in the hospitality,
		<b>3</b>	tourism and or recreation industry.
	HTR1.c.1.e: Define conflict	HTR1.c.5.m: Apply conflict	HTR1.c.10.h: Analyze effects of
	resolution skills.	resolution skills relating to building	customer relations on meeting the
		healthy relationships.	hospitality, tourism and recreation
			needs of special populations.
			HTR1.d.12.h: Demonstrate front
			desk, office and customer service
			skills.
HTR1.d: Demonstrate practices and skills	HTR1.d.1.e: List the forms of	HTR1.d.6.m: Practice money	HTR1.d.13.h: Perform cash
involved in lodging occupations.	money.	handling procedures.	handling, accounting and financial
involved in loughing occupations.			transactions.
			HTR1.d.14.h: Manage convention,
			meeting and banquet support
			functions.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
	HTR1.d.2.e: Explore safety	HTR1.d.7.m: Practice safety and	HTR1.d.15.h: Apply basic food
	principles needed when working	sanitation principles needed to	preparation and services skills in
	around food.	provide safe food.	catering operations.
	HTR1.d.3.e: Demonstrate the	HTR1.d.8.m: Follow important	HTR1.d.16.h: Manage use, care,
	proper care and storage of	steps for proper care and storage	storage, maintenance and safe
	equipment, tools and supplies.	of equipment, tools and supplies.	operations of equipment, tools and supplies.
	HTR1.d.4.e: Follow a classroom	HTR1.d.9.m: Implement a	HTR1.d.17.h: Apply facility
	maintenance schedule.	classroom maintenance schedule.	management, maintenance and service skills to lodging operations.
	HTR1.d.5.e: Follow a time	HTR1.d.10.m: Devise a time	HTR1.d.18.h: Apply time and work
	management schedule for a set of	management schedule for a set of	management skills to facility service
	tasks.	tasks.	tasks.
		HTR1.d.11.m: Analyze sales and	HTR1.d.19.h: Develop a sales and
		marketing functions in lodging	marketing plan by developing a food
		operations.	product in an entrepreneurial
			situation.
			HTR1.e.5.h: Examine lodging,
			tourism and recreation customs of
			various regions and countries.
	HTR1.e.1.e: Explore food and	HTR1.e.3.m: Practice etiquette	HTR1.e.6.h: Apply procedures for
	beverages of various regions and	techniques needed in social	food, beverage and etiquette of
	countries.	situations through role playing.	various regions and countries to
			decisions about lodging, tourism and recreation.
HTR1.e: Demonstrate practices and skills for	HTR1.e.2.e: Explore modes of	HTR1.e.4.m: Examine geography,	HTR1.e.7.h: Assemble information
travel related services.	transportation for domestic and	climate, sites and time zones of	needed for domestic and
traver related services.	international travel.	various regions and countries that	international travel.
		influence travel nationally and	
		internationally.	
			HTR1.e.8.h: Produce travel
			documents and itineraries, utilizing
			current technology.
			HTR1.e.9.h: Monitor travel
			arrangements using computerized
			systems.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
			HTR1.f.8.h: Coordinate client inquiries and requests.
	HTR1.f.1.e: Define a budget and its importance in relation to financial literacy.	HTR1.f.3.m: Plan a time plan, theme, budget and agenda for an event in the home or community.	HTR1.f.9.h: Design themes, time lines, budgets, agendas and itineraries.
			HTR1.f.10.h: Organize locations, facilities, suppliers and vendors for specific services.
<b>HTR1.f:</b> Demonstrate management of recreation, leisure and other programs and		HTR1.f.4.m: Develop event promotional materials.	HTR1.f.11.h: Prepare for distribution of event materials.
events.		HTR1.f.5.m: Prepare for an event by marketing and distribution of materials for the event.	HTR1.f.12.h: Demonstrate skills related to promoting and publicizing events.
		HTR1.f.6.m: Devise an event within your school or community.	HTR1.f.13.h: Manage programs and events for specific age groups or diverse populations.
	HTR1.f.2.e: Explore wellness through recreation and leisure programs and event.	HTR1.f.7.m: Identify needs for wellness programs.	HTR1.f.14.h: Promote wellness through recreation and leisure programs and events.



**Content Area: HIF/Housing, Interiors and Furnishings** 

**Standard:** HIF1: Students will integrate knowledge, skills and practices required for careers in housing, interiors and furnishings.

Standard. First. Students will integr		formance Indicators (By Grade Ba	
Learning Priority	PK-5	6-8	9-12
	HIF1.a.1.e: Introduce careers in housing, interiors and furnishings.	HIF1.a.5.m: Explain the roles and functions of individuals engaged in housing, interiors and furnishings careers.	HIF1.a.10.h: Analyze the roles and functions of individuals engaged in housing, interiors and furnishings careers.
	HIF1.a.2.e: Introduce opportunities for employment and entrepreneurial endeavors.	HIF1.a.6.m: Explore opportunities for employment and entrepreneurial endeavors.	HIF1.a.11.h: Analyze opportunities for employment and entrepreneurial endeavors.
WIE1 at Analyza carear naths within the	<b>HIF1.a.3.e:</b> Introduce career paths in housing, interiors and furnishings.	HIF1.a.7.m: Identify the education, training and credentialing requirements and opportunities for career paths in housing, interiors and furnishings.	HIF1.a.12.h: Summarize education, training and credentialing requirements and opportunities for career paths in housing, interiors and furnishings.
HIF1.a: Analyze career paths within the housing, interiors and furnishings industry.		HIF1.a.8.m: Investigate the impact of housing, interiors and furnishings careers on local, state, national and global economies.	HIF1.a.13.h: Analyze the impact of housing, interiors and furnishings occupations on local, state, national and global economies.
	<b>HIF1.a.4.e:</b> Identify qualities of a good employee.	HIF1.a.9.m: Explore skills needed to be successful in career opportunities in housing, interiors and furnishings.	HIF1.a.14.h: Create an employment portfolio for use with applying for internships and work-based learning opportunities in housing, interiors and furnishings careers.
			HIF1.a.15.h: Analyze the role of professional organizations in housing, interiors and furnishings professions.
	<b>HIF1.b.1.e:</b> Introduce principles and elements of design.	<b>HIF1.b.5.m:</b> Identify the principles and elements of design.	<b>HIF1.b.9.h:</b> Apply the principles and elements of design.
<b>HIF1.b:</b> Evaluate housing design concepts in relation to available resources and options.	HIF1.b.2.e: Identify psychological effects on principles and elements of design.	HIF1.b.6.m: Describe the psychological impact that the principles and elements of design have on the individual.	HIF1.b.10.h: Analyze the psychological impact that the principles and elements of design have on the individual.
	<b>HIF1.b.3.e:</b> Define aesthetics and function.	HIF1.b.7.m: Identify the effects that the principles and elements of design have on aesthetics and function.	HIF1.b.11.h: Analyze the effects that the principles and elements of design have on aesthetics and function.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
	<b>HIF1.b.4.e:</b> Demonstrate appropriate sizing and shapes of proportions.	HIF1.b.8.m: Identify principles of human behavior such as ergonomics and anthropometrics to design of housing, interiors and furnishings.	HIF1.b.12.h: Apply principles of human behavior such as ergonomics and anthropometrics to design of housing, interiors and furnishings.
HIF1.c: Evaluate the use of housing and interior furnishings and products in meeting specific design needs.	HIF1.c.1.e: Identify different floor coverings and wall coverings.	HIF1.c.4.m: Research the differences between floor coverings, wall coverings, textiles, window treatments, furniture, lighting fixtures, kitchen and bath fixtures and equipment.	HIF1.c.8.h: Analyze product information, including but not limited to floor coverings, wall coverings, textiles, window treatments, furniture, lighting fixtures, kitchen and bath fixtures and equipment.
		HIF1.c.5.m: Identify manufacturer's products and materials considering care, maintenance, safety and environmental protection issues.	HIF1.c.9.h: Evaluate manufacturers, products and materials considering care, maintenance, safety and environmental protection issues.
	HIF1.c.2.e: Demonstrate basic measuring skills.	HIF1.c.6.m: Demonstrate measuring and estimating skills.	HIF1.c.10.h: Demonstrate measuring, estimating ordering, purchasing and pricing skills.
	<b>HIF1.c.3.e:</b> Identify the types of furniture and appliances needed in individual situations.	HIF1.c.7.m: Investigate various interior furnishings, appliances and equipment that provide cost and quality choices for clients, considering first cost and product life-cycle costing.	HIF1.c.11.h: Appraise various interior furnishings, appliances and equipment that provide cost and quality choices for clients, considering first cost and product life-cycle costing.
HIF1.d: Demonstrate computer-aided drafting design, blueprint reading and space planning skills required for the housing,	HIF1.d.1.e: Introduce features on a blueprint.  HIF1.d.2.e: Observe floor plans on a diagram or blue print.	HIF1.d.5.m: Explain information provided on blueprints. HIF1.d.6.m: Analyze floor plans for efficiency and safety in areas including but not limited to zones, traffic patterns and storage.	HIF1.d.11.m: Analyze information provided on blueprints.  HIF1.d.12.m: Evaluate floor plans for efficiency and safety in areas including but not limited to zones, traffic patterns, storage and electrical and mechanical systems.
interiors and furnishings industry.	<b>HIF1.d.3.e:</b> Draw the interior space of your home.	HIF1.d.7.m: Draw an interior space to mathematically accurate scale using correct architecture symbols.	HIF1.d.13.m: Draw an interior space to mathematically accurate scale using correct architecture symbols and drafting skills.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
		<b>HIF1.d.8.m:</b> Practice arranging furniture in a variety of situations.	HIF1.d.14.m: Arrange furniture placement using principles of design, traffic flow, activity and existing architectural features.
	HIF1.d.4.e: Introduce space planning in the home.	HIF1.d.9.m: Identify space planning concepts within building structures.  HIF1.d.10.m: Create and draw a floor plan for one's own bedroom.	HIF1.d.15.m: Utilize applicable building codes, universal guidelines and regulations in space planning. HIF1.d.16.m: Create floor plan using computer design software.
		HIF1.e.1.m: Identify features of furnishings that are characteristic of various historical periods.  HIF1.e.2.m: Discuss mass production and the impact of goods and services.  HIF1.e.3.m: Research architectural	HIF1.e.6.h: Describe features of furnishings that are characteristic of various historical periods.  HIF1.e.7.h: Explain how prosperity, mass production and technology are related to the various periods.  HIF1.e.8.h: Illustrate the
HIF1.e: Analyze influences on architectural		styles.	development of architectural styles throughout history.
and furniture design and development.		HIF1.e.4.m: Discuss trends in housing and interior design.	HIF1.e.9.h: Compare and contrast historical architectural details to current housing and interior design trends.
		HIF1.e.5.m: Create a future design in architecture, interiors, furniture and furnishings.	HIF1.e.10.h: Analyze future design and development trends in architecture, interiors, furniture and furnishings.
HIF1.f: Evaluate client's needs, goals and resources in creating design plans for housing, interiors and furnishings.	<b>HIF1.f.1.e:</b> Identify human needs, safety, space and technology as they relate to housing.	HIF1.f.5.m: Discuss human needs, safety, space and technology as they relate to housing and interior design goods.	HIF1.f.10.h: Assess human needs, safety, space and technology as they relate to housing and interior design goods.
		HIF1.f.6.m: Introduce financial resources available to meet housing needs and interior goals.	HIF1.f.11.h: Assess community, family and financial resources needed to achieve clients' housing and interior goals.
	<b>HIF1.f.2.e:</b> Identify resources for housing and interior design.	HIF1.f.7.m: Assess a variety of available resources for housing and interior design, including ergonomic and anthropometric data.	HIF1.f.12.h: Apply a variety of available resources for housing and interior design, including ergonomic and anthropometric data.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
	HIF1.f.3.e: Introduce design plans based on needs and wants.	<b>HIF1.f.8.m:</b> Discuss different plans that address client's needs in the design process.	HIF1.f.13.h: Critique design plans that address client's needs and the design process.
	HIF1.f.4.e: Introduce the design process.	HIF1.f.9.m: Create design solutions relative to client needs and the design process.	<b>HIF1.f.14.h:</b> Justify design solutions relative to client needs and the design process.
	HIF1.g.1.e: Introduce studio tools.	HIF1.g.6.m: Select appropriate studio tools.	HIF1.g.12.h: Apply appropriate studio tools.
	HIF1.g.2.e: Introduce an illustrative sketch.	HIF1.g.7.m: Create an illustrative sketch.	HIF1.g.13.h: Demonstrate illustrative sketching, presentation of color, materials and furnishings in preparation of renderings, elevations and sketches.
HIF1.g: Apply design knowledge, skills, processes and theories and oral, written and	HIF1.g.3.e: Introduce needs for a housing presentation.	<b>HIF1.g.8.m:</b> Compare and contrast different visual presentations with housing.	HIF1.g.14.h: Prepare visual presentations including legends, keys and schedules.
visual presentation skills to communicate design ideas.	HIF1.g.4.e: Identify different media presentations.	HIF1.g.9.m: Utilize a variety of presentation media such as photography, video, computer and software for client presentations.	HIF1.g.15.h: Utilize a variety of presentation media such as photography, video, computer and software for client presentations.
	<b>HIF1.g.5.e:</b> Demonstrate fire safety procedures.	HIF1.g.10.m: Identify building codes, universal guidelines and regulations in space planning.	HIF1.g.16.h: Utilize applicable building codes, universal guidelines and regulations in space planning.
		<b>HIF1.g.11.m:</b> Create floor plans using templates.	<b>HIF1.g.17.h:</b> Create floor plans using computer design software.
	<b>HIF1.h.1.e:</b> Introduce the importance of legislative regulations and public policies.	HIF1.h.8.m: Discuss legislation, regulation and public policy affecting the housing, interiors and furnishing industry.	HIF1.h.15.h: Analyze legislation, regulations and public policy affecting the housing, interiors and furnishing industry.
HIF1.h: Analyze professional practices, procedures for business profitability and career success and the role of ethics in the housing, interiors and furnishings industries.	HIF1.h.2.e: Identify personal and employer responsibilities and liabilities.	HIF1.h.9.m: Discuss personal and employer responsibilities and liabilities regarding industry related safety, security and environmental factors.	HIF1.h.16.h: Analyze personal and employer responsibilities and liabilities regarding industry related safety, security and environmental factors.
	HIF1.h.3.e: Introduce key concepts of law and regulations in a workplace.	HIF1.h.10.m: Discuss law and regulations between various worksites and the impact.	HIF1.h.17.h: Analyze how security and inventory control strategies, laws and regulations and worksite policies and procedures affect loss prevention and profit.



	Per	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12	
	HIF1.h.4.e: Introduce how to report	HIF1.h.11.m: Discuss procedures	HIF1.h.18.h: Demonstrate	
	an accident.	for reporting and handling	procedures for reporting and	
		accidents, safety and security	handling accidents, safety and	
		incidents.	security incidents.	
	HIF1.h.5.e: Introduce cash	HIF1.h.12.m: Identify procedures	HIF1.h.19.h: Apply procedures for	
	transactions.	for maintaining inventory control	maintaining inventory control and	
		and loss prevention, including cash	loss prevention, including cash and	
		and credit transactions.	credit transactions.	
	HIF1.h.6.e: Define operational	HIF1.h.13.m: Describe how	HIF1.h.20.h: Analyze operational	
	costs.	operational costs such as mark ups,	costs such as mark ups, mark downs,	
		mark downs, cash flow and other	cash flow and other factors affecting	
		factors affect profit.	profit.	
	HIF1.h.7.e: Define design industries	HIF1.h.14.m: Discuss the	HIF1.h.21.h: Summarize the	
	in the local community.	importance of design industries	influence of various resources and	
		and the impact on the local	of cultural impact upon design	
		community.	industries.	



Content Area: HD/Human Development

Standard: HD1: Students will analyze factors that influence human growth and development.

Standard: HD1: Students will allaryz	e factors that influence human growth and development.			
	Performance Indicators (By Grade Band)			
Learning Priority	PK-5	6-8	9-12	
<b>HD1.a:</b> Analyze principles of human growth and development across the life span.	<b>HD1.a.1.e:</b> Identify differences in physical, emotional, social spiritual and intellectual development.	<b>HD1.a.4.m:</b> Recognize examples of physical, emotional, social, spiritual and intellectual development.	HD1.a.7.h: Distinguish between physical, emotional, social, spiritual and intellectual development.	
	<b>HD1.a.2.e:</b> List different types of relationships within human growth and development.	HD1.a.5.m: Demonstrate interpersonal relationships among physical, emotional, social and intellectual areas of human growth and development.	HD1.a.8.h: Analyze interrelationships among physical, emotional, social and intellectual aspects of human growth and development.	
	HD1.a.3.e: Read a book about growing up.	<b>HD1.a.6.m:</b> Read and discuss a current article about human growth and development, including brain development.	HD1.a.9.h: Analyze current and emerging research about human growth and development, including research on brain development.	
<b>HD1.b:</b> Analyze conditions that influence human growth and development.	HD1.b.1.e: Introduce heredity and environment.	HD1.b.5.m: Discuss the effect of heredity and environment on human growth and development.	<b>HD1.b.10.h:</b> Analyze the effect of heredity and environment on human growth and development.	
		HD1.b.6.m: Identify social, economic and technological impacts on individual growth and development.	<b>HD1.b.11.h:</b> Analyze the impact of social, economic and technological forces on individual growth and development.	
	<b>HD1.b.2.e:</b> Define gender, ethnicity and culture.	<b>HD1.b.7.m:</b> Identify effects of gender, ethnicity and culture on individual development.	<b>HD1.b.12.h:</b> Analyze the effects of gender, ethnicity and culture on individual development.	
	HD1.b.3.e: List life events on individual's physical, intellectual, social, moral and emotional development.	HD1.b.8.m: Compare and contrast the effects of life events on individual's physical, intellectual, social, moral and emotional development.	<b>HD1.b.13.h:</b> Analyze the effects of life events on individuals' physical, intellectual, social, moral and emotional development.	
	HD1.b.4.e: Brainstorm ways community influences on human growth and development.	HD1.b.9.m: Recognize community and national influences on human growth and development.	HD1.b.14.h: Analyze geographic, political and global influences on human growth and development.	



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
HD1.c: Analyze strategies that promote growth and development across the life	<b>HD1.c.1.e:</b> Identify activities to promote growth and development across the life span.	<b>HD1.c.4.m:</b> Examine the role of nurturance on human growth and development.	HD1.c.7.h: Analyze the role of nurturance on human growth and development.
	<b>HD1.c.2.e:</b> Describe how we communicate.	<b>HD1.c.5.m:</b> Demonstrate the role of communication on human growth and development.	<b>HD1.c.8.h:</b> Analyze the role of communication on human growth and development.
span.	<b>HD1.c.3.e:</b> Identify helpful people in family, community and society.	<b>HD1.c.6.m:</b> Give examples of family and social services support systems in meeting human growth and development needs.	HD1.c.9.h: Analyze the role of family and social services support systems in meeting human growth and development needs.



**Content Area: IR/Interpersonal Relationships** 

**Standard: IR1:** Students will demonstrate respectful and caring relationships in the family, workplace and community.

Standard: IK1: Students Will demon	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
	IR1.a.1.e: Introduce social skills.	<b>IR1.a.7.m:</b> Apply social skills that lead to effective school and family relationships.	IR1.a.13.h: Analyze processes for building and maintaining interpersonal relationships.
	<b>IR1.a.2.e:</b> Identify stages of the life cycle.	<b>IR1.a.8.m:</b> Describe the stages of the life cycle.	<b>IR1.a.14.h:</b> Predict the effects of various stages of the family life cycle on interpersonal relationships.
<b>IR1.a:</b> Analyze functions and expectations of various types of relationships.	<b>IR1.a.3.e:</b> Identify characteristics of stable and unstable relationships.	<b>IR1.a.9.m:</b> Describe the effects of stable and unstable relationships.	<b>IR1.a.15.h:</b> Compare physical, emotional, spiritual and intellectual functioning in stable and unstable relationships.
various types of relationships.	<b>IR1.a.4.e:</b> Identify examples of healthy and unhealthy relationships.	IR1.a.10.m: Identify factors that lead to healthy and unhealthy relationships.	<b>IR1.a.16.h:</b> Analyze factors that contribute to healthy and unhealthy relationships.
	<b>IR1.a.5.e:</b> Introduce resources for handling unhealthy relationships.	<b>IR1.a.11.m:</b> Identify resources for handling unhealthy relationships.	<b>IR1.a.17.h:</b> Analyze processes for handling unhealthy relationships and prepare for possible application.
	<b>IR1.a.6.e:</b> Identify effective stress management strategies.	IR1.a.12.m: Demonstrate effective stress management strategies.	IR1.a.18.h: Demonstrate stress management strategies for family, work and community settings.
	IR1.b.1.e: Identify qualities and skills necessary to build and maintain friendships.	<b>IR1.b.6.m:</b> Demonstrate skills necessary to build and maintain friendships.	<b>IR1.b.11.h:</b> Analyze the effects of personal characteristics on relationships.
	IR1.b.2.e: Identify personal needs.	<b>IR1.b.7.m:</b> Describe the effects of personal need on relationships.	<b>IR1.b.12.h:</b> Analyze the effect of personal need on relationships.
<b>IR1.b:</b> Analyze personal needs and characteristics and their effects on interpersonal relationships.	IR1.b.3.e: Define self-esteem and self-image.	<b>IR1.b.8.m:</b> Describe self-esteem and self-image effects on relationships.	<b>IR1.b.13.h:</b> Analyze the effects of self-esteem and self-image on relationships.
	IR1.b.4.e: Identify life span events.	<b>IR1.b.9.m:</b> Discuss life span events and the impact on relationships.	<b>IR1.b.14.h:</b> Analyze the effects of life span events and conditions on relationships.
	IR1.b.5.e: Identify personal needs in a relationship.	IR1.b.10.m: Demonstrate personal qualities that demonstrate caring, respectful relationships.	<b>IR1.b.15.h:</b> Establish personal standards and qualities that impact interpersonal relationships.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
	<b>IR1.c.1.e:</b> Recognize different communication styles.	<b>IR1.c.8.m:</b> Demonstrate different communication styles.	IR1.c.15.h: Analyze communication styles and their effects on relationships.
	IR1.c.2.e: Observe effective communication.	IR1.c.9.m: Identify effective communication strategies.	IR1.c.16.h: Demonstrate verbal and nonverbal behaviors and attitudes that contribute to effective communication.
	<b>IR1.c.3.e:</b> Identify effective listening techniques.	IR1.c.10.m: Demonstrate effective listening and feedback techniques.	<b>IR1.c.17.h:</b> Analyze effective listening and feedback techniques that contribute to positive relationships.
<b>IR1.c:</b> Demonstrate communication skills that contribute to positive relationships.	IR1.c.4.e: Identify communication barriers in school and family settings.  IR1.c.5.e: Role play ways in which	IR1.c.11.m: Describe communication barriers in school and family settings.  IR1.c.12.m: Compare and	IR1.c.18.h: Analyze strategies to overcome communication barriers in family, community and work settings.  IR1.c.19.h: Apply ethical principles of
	we respect the rights of others.	contrast ethical principles.	communication in family, community and work settings.
	IR1.c.6.e: Identify communication technology.	IR1.c.13.m: Describe the effects of communication technology in family, work and community settings.	<b>IR1.c.20.h:</b> Analyze the effects of communication technology in family, work and community settings.
	<b>IR1.c.7.e:</b> Introduce roles and functions of communication.	IR1.c.14.m: Recognize roles and functions of communication in family, work and community settings.	IR1.c.21.h: Analyze the roles and functions of communication in family, work and community settings.
	<b>IR1.d.1.e:</b> Introduce techniques to express emotions.	IR1.d.7.m: Explore skills to express emotions and resolve differences and conflict in school and family relationships.	IR1.d.13.h: Analyze the origin and development of attitudes and behaviors regarding conflict.
IR1.d: Evaluate effective conflict prevention and management techniques.	IR1.d.2.e: Identify differences among people.	<b>IR1.d.8.m:</b> Describe similarities and differences among people that cause conflict.	<b>IR1.d.14.h:</b> Critique how similarities and differences among people affect conflict prevention and management.
	IR1.d.3.e: Describe conflict resolution skills.	IR1.d.9.m: Apply conflict resolution skills that lead to building healthy relationships.	IR1.d.15.h: Apply the roles of decision making and problem solving in reducing and managing conflict in non-violent ways.
	<b>IR1.d.4.e:</b> Identify strategies that resist peer pressure.	<b>IR1.d.10.m:</b> Apply strategies to resist peer pressure.	<b>IR1.d.16.h:</b> Evaluate the role of peer pressure in life scenarios.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
	IR1.d.5.e: Identify forms of harassment and choose effective responses to harassment in a variety of situations in family and school situations.	IR1.d.11.m: Demonstrate effective ways to respond to harassment.	IR1.d.17.h: Create a peer education program in responding to harassment.
	<b>IR1.d.6.e:</b> Introduce resources that support conflict prevention.	IR1.d.12.m: Identify community resources that support conflict prevention and management.	IR1.d.18.h: Assess community resources that support conflict prevention and management.
	IR1.e.1.e: Identify roles within a team.	<b>IR1.e.8.m:</b> Demonstrate roles within a team that encourage communication.	IR1.e.15.h: Create an environment that encourages and respects the ideas, perspectives and contributions of all group members.
	<b>IR1.e.2.e:</b> Identify strategies to build trust within a group.	<b>IR1.e.9.m:</b> Demonstrate strategies to motivate, encourage and build trust in group members.	IR1.e.16.h: Analyze effective strategies to motivate, encourage and build trust in group members.
IR1.e: Demonstrate teamwork and leadership skills in the family, workplace and community.	<b>IR1.e.3.e:</b> Identify personal strengths and limitations.	IR1.e.10.m: Identify strengths and limitations of individuals within a group.	IR1.e.17.h: Demonstrate strategies that utilize the strengths and minimize the limitations of group members.
	<b>IR1.e.4.e:</b> Identify techniques that create team and community spirit.	<b>IR1.e.11.m:</b> Develop techniques that create team and community spirit.	IR1.e.18.h: Demonstrate techniques that develop team and community spirit.
	IR1.e.5.e: Identify individual responsibilities of a team.	<b>IR1.e.12.m:</b> Demonstrate ways to delegate responsibilities.	IR1.e.19.h: Demonstrate strategies used to organize and delegate responsibilities.
	<b>IR1.e.6.e:</b> Identify ways to include new members.	<b>IR1.e.13.m:</b> Discuss strategies to integrate new members into the team.	IR1.e.20.h: Create strategies to integrate new members into the team.
	<b>IR1.e.7.e:</b> Develop techniques to cooperate and compromise.	IR1.e.14.m: Demonstrate cooperation, compromise and collaboration.	<b>IR1.e.21.h:</b> Demonstrate processes for cooperating, compromising and collaborating.
IR1.f: Demonstrate standards that guide behavior in interpersonal relationships.	<b>IR1.f.1.e:</b> Define ethics relative to a variety of family and community scenarios.	IR1.f.5.m: Compare and contrast ethical criteria.	IR1.f.10.h: Apply critical thinking and ethical criteria to evaluate interpersonal relationships.
		<b>IR1.f.6.m:</b> Identify guidelines to follow when assessing situations.	IR1.f.11.h: Apply guidelines for assessing the nature of issues and situations.



	Performance Indicators (By Grade Band)			
Learning Priority	PK-5	6-8	9-12	
	IR1.f.2.e: Identify critical thinking	IR1.f.7.m: Demonstrate critical	IR1.f.12.h: Apply critical thinking and	
	skills.	thinking.	ethical standards when making	
	IR1.f.3.e: Role play appropriate	IR1.f.8.m: Identify ethical	IR1.f.13.h: Demonstrate ethical	
	behaviors in the home and school in behaviors in fa	behaviors in family, workplace	behavior in family, workplace and	
	a variety of situations.	and community settings.	community settings.	
	IR1.f.4.e: Identify behaviors that	IR1.f.9.m: Discuss opposing	IR1.f.14.h: Compare the relative	
	are appropriate in a variety of	points of current ethical issues.	merits of opposing points to view	
	interpersonal relationships.		regarding current ethical issues.	



# Wisconsin Standards for Family and Consumer Sciences (FCS)

**Content Area: NW/Nutrition and Wellness** 

Standard: NW1: Students will demonstrate nutrition and wellness practices that enhance individual and family well-being.

	Per	formance Indicators (By Grade Ba	and)
Learning Priority	PK-5	6-8	9-12
	<b>NW1.a.1.e:</b> Identify positive and negative health choices.	<b>NW1.a.5.m:</b> Identify and define the areas of wellness.	<b>NW1.a.10.h:</b> Explain physical, emotional, social, psychological and spiritual components of individual and family wellness.
	<b>NW1.a.2.e:</b> Identify why people need to eat different kinds of foods.	<b>NW1.a.6.m:</b> Identify factors that impact food choices and nutritional practice.	<b>NW1.a.11.h:</b> Analyze the effects of psychological, cultural and social influences on food choices and other nutrition practices.
<b>NW1.a:</b> Analyze factors that influence nutrition and wellness practices across the life span.	<b>NW1.a.3.e:</b> Assess eating habits utilizing "myplate".	<b>NW1.a.7.m:</b> Identify historical changes that have altered food choices and practices.	<b>NW1.a.12.h:</b> Analyze the governmental, economic and technological influences on food choices and practices.
	<b>NW1.a.4.e:</b> Differentiate between hunger and non-hunger clues to eating.	<b>NW1.a.8.m:</b> Identify global and local nutrition trends of health promotion concepts.	<b>NW1.a.13.h:</b> Describe how food choices are influenced by availability, individual and family preferences and the media.
		<b>NW1.a.9.m:</b> Identify components of wellness policies.	<b>NW1.a.14.h:</b> Analyze legislation and regulations related to nutrition and wellness.
	<b>NW1.b.1.e:</b> Recognize the concept of eating a variety of foods is important to health.	<b>NW1.b.5.m:</b> Identify key nutrients and list ways nutrients can promote health and prevent chronic disease.	<b>NW1.b.9.h:</b> Analyze the effect of nutrients on health, appearance and peak performance.
<b>NW1.b:</b> Evaluate the nutritional needs of individuals and families in relation to health and wellness across the life span.	<b>NW1.b.2.e:</b> Recognize the relationship between diet and chronic diseases, such as obesity and tooth decay.	<b>NW1.b.6.m:</b> Describe the relationship between food choices and health problems.	<b>NW1.b.10.h:</b> Analyze the relationship of nutrition and wellness to individual and family health throughout the life span.
	<b>NW1.b.3.e:</b> Identify a healthy eating habit.	<b>NW1.b.7.m:</b> Assess eating habits (meals and snacks), set a personal nutrition goal and track progress toward achieving this goal.	<b>NW1.b.11.h:</b> Critically analyze dietary habits related to health and how they may affect body weight and long term health.



	Per	formance Indicators (By Grade B	and)
Learning Priority	PK-5	6-8	9-12
	<b>NW1.b.4.e:</b> Demonstrate how to use food labels to select a healthy food or snack.	<b>NW1.b.8.m:</b> Demonstrate how to use food labels to make healthier choices.	<b>NW1.b.12.h:</b> Describe the components of a nutrition label and how to use the information from labels in making informed decisions regarding food choices.
	<b>NW1.c.1.e:</b> Identify foods by group and nutrient contributions.	<b>NW1.c.3.m:</b> Identify nutrients important in dietary needs for different stages of the life span.	<b>NW1.c.6.h:</b> Describe the relationship between the food guidance system and the Dietary Standards for Americans.
<b>NW1.c:</b> Demonstrate ability to acquire, handle and use foods to meet nutrition and wellness needs of individuals and families across the life span.		<b>NW1.c.4.m:</b> Explore health related concerns that affect food choices.	<b>NW1.c.7.h:</b> Design strategies that meet the health and nutrition requirements of individuals and families with special needs.
	<b>NW1.c.2.e:</b> Read and discuss nutrition and healthy eating with a reading buddy.	<b>NW1.c.5.m:</b> Demonstrate food preparation skills.	<b>NW1.c.8.h:</b> Demonstrate ability to select store, prepare and serve nutritious and aesthetically pleasing foods.
	<b>NW1.d.1.e:</b> Recognize that eating improperly prepared or spoiled food can cause illness.	<b>NW1.d.7.m:</b> Explain the relationship between food safety practices and health.	<b>NW1.d.13.h:</b> Analyze conditions and practices that promote safe food handling.
<b>NW1.d:</b> Evaluate factors that affect food safety from production through consumption.	<b>NW1.d.2.e:</b> Describe a food chain.	<b>NW1.d.8.m:</b> Construct a food chain.	<b>NW1.d.14.h:</b> Explain how contaminants may enter the food supply at various points in a food chain.
	<b>NW1.d.3.e:</b> Trace a food from origin to table.	<b>NW1.d.9.m:</b> Identify agencies responsible for monitoring the food supply.	<b>NW1.d.15.h:</b> Analyze how changes in national and international food production and distribution systems influence the food supply.
	<b>NW1.d.4.e:</b> Identify ways to keep food fresh and safe to eat.	<b>NW1.d.10.m:</b> Discuss the inspection and labeling systems on food.	<b>NW1.d.16.h:</b> Explain how food importing/exporting, processing, food handling and cooking methods can affect the safety of our food supply.
	<b>NW1.d.5.e:</b> Explain the importance of hand washing during food preparation.	<b>NW1.d.11.m:</b> Describe factors associated with a safe food supply.	<b>NW1.d.17.h:</b> Analyze food borne illness factors, including causes, foods at risk and methods of prevention commercially and by individuals and families.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
	<b>NW1.d.6.e:</b> Explain the importance of hand-washing during food preparation.	<b>NW1.d.12.m:</b> Identify the relationship between food safety practices and health.	<b>NW1.d.18.h:</b> Analyze public dialogue about food safety and sanitation.
	<b>NW1.e.1.e:</b> Identify newly developed foods.	<b>NW1.e.2.m:</b> Give examples of how the food supply has changed over time.	<b>NW1.e.6.h:</b> Analyze how scientific and technical advances influence the nutrient content, availability and safety of foods.
		<b>NW1.e.3.m:</b> Identify food marketing strategies and food preservation techniques.	<b>NW1.e.7.h:</b> Analyze how scientific and technical advances in food processing, storage, product development and distribution influence nutrition and wellness.
		<b>NW1.e.4.m:</b> Identify advances and changes throughout the history of food.	<b>NW1.e.8.h:</b> Analyze the effects of technological advances on selection preparation and home storage of food.
		<b>NW1.e.5.m:</b> Identify examples of how the food companies, advertising and the media encourage people to buy and eat different foods.	<b>NW1.e.9.h:</b> Analyze the effects of food science and technology on meeting nutritional needs.



## Wisconsin Standards for Family and Consumer Sciences (FCS)

**Content Area: P1/Parenting (Child Development and Parenting)** 

**Standard: P1:** Students will evaluate the effects of parenting roles and responsibilities on strengthening the well-being of individuals and families.

	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
	<b>P1.a.1.e:</b> Distinguish that parents have different roles.	<b>P1.a.4.m:</b> Identify parenting roles across the life span.	<b>P1.a.9.h:</b> Analyze parenting roles across the life span.
	<b>P1.a.2.e:</b> Recognize parents have different responsibilities.	<b>P1.a.5.m:</b> Examine expectations and responsibilities of parenting.	<b>P1.a.10.h:</b> Analyze expectations and responsibilities of parenting.
P1.a: Analyze roles and responsibilities of		<b>P1.a.6.m:</b> Identify parenting practices.	<b>P1.a.11.h:</b> Analyze consequences of parenting practices to the individual, family and society.
parenting.		P1.a.7.m: Identify societal conditions that influence parenting.	P1.a.12.h: Analyze societal conditions that influence parenting across the life span.
	<b>P1.a.3.e:</b> Recognize that everyone is different in their own way.	P1.a.8.m: Examine cultural differences in roles and responsibilities of parenting.	P1.a.13.h: Explain cultural differences in roles and responsibilities of parenting.
		<b>P1.b.4.m:</b> Choose nurturing practices that support human growth and development.	<b>P1.b.9.h:</b> Explain nurturing practices that support human growth and development.
	<b>P1.b.1.e:</b> Identify communication strategies that promote positive self-esteem in family members.	<b>P1.b.5.m:</b> Apply communication strategies that promote positive self-esteem in family members.	<b>P1.b.10.h:</b> Evaluate communication strategies that promote positive selfesteem in family members.
P1.b: Evaluate parenting practices that maximize human growth and development.	P1.b.2.e: Explain human growth and development.	P1.b.6.m: Apply current and emerging research on human growth and development and parenting, including brain research, to assess parenting and nurturing practices.	P1.b.11.h: Assess common practices and emerging research about discipline on human growth and development.
	<b>P1.b.3.e:</b> Identify the effects of abuse and neglect on children and families and determine methods for prevention.	<b>P1.b.7.m:</b> Analyze impacts of abuse and neglect on children and families and determine methods of prevention.	<b>P1.b.12.h:</b> Assess the effects of abuse and neglect on children and families and determine methods for prevention.
		<b>P1.b.8.m:</b> Identify the care & services for children.	<b>P1.b.13.h:</b> Apply criteria for selecting care and services for children.



	Per	formance Indicators (By Grade I	Band)
Learning Priority	PK-5	6-8	9-12
<b>P1.c:</b> Evaluate external support systems that provide services for parents and caregivers.		P1.c.1.m: Identify that there are community resources.	P1.c.4.h: Examine roles of support systems available in meeting early childhood growth and development needs, including children with handicaps or disadvantaging conditions.
		<b>P1.c.2.m:</b> Identify & examine the community resources.	P1.c.5.h: Appraise community resources that provide opportunities related to parenting.
		<b>P1.c.3.m:</b> Identify the laws that support parenting.	<b>P1.c.6.h:</b> Summarize current laws and policies related to parenting.
<b>P1.d:</b> Analyze factors related to preparing for parenthood.	<b>P1.d.1.e:</b> Describe the beginning of human development.	<b>P1.d.3.m:</b> Identify the different stages of development.	P1.d.7.h: Analyze biological processes related to prenatal development, birth and health of child and mother.
		<b>P1.d.4.m:</b> Identify the emotional factors of birth.	P1.d.8.h: Analyze the emotional factors of prenatal development and birth in relation to the health of parents and child.
	<b>P1.d.2.e:</b> Identify different family life styles.	<b>P1.d.5.m:</b> Identify there are different forms of parenthood.	<b>P1.d.9.h:</b> Analyze implications of alternatives to biological parenthood.
		<b>P1.d.6.m:</b> Identify different ways to have a child and available resources.	P1.d.10.h: Analyze legal and ethical impacts of current and emerging technology on fertility and family planning.



## Wisconsin Standards for Family and Consumer Sciences (FCS)

**Content Area: TFA/Textiles, Fashion and Apparel** 

**Standard: TFA1:** Students will integrate knowledge, skills and practices required for careers in textiles and apparel.

	Pe	erformance Indicators (By Grade	Band)
Learning Priority	PK-5	6-8	9-12
		<b>TFA1.a.1.m:</b> Explain the roles and functions of individuals engaged in textiles and apparel careers.	<b>TFA1.a.4.h:</b> Analyze opportunities for employment and entrepreneurial endeavors.
TEA1 as Analyza carear natha within taytila		<b>TFA1.a.2.m:</b> Examine knowledge and skills needed to work in the textile, fashion and apparel industries.	<b>TFA1.a.5.h:</b> Describe education and training requirements and opportunities for career paths in textile and apparel services.
<b>TFA1.a:</b> Analyze career paths within textile apparel and design industries.		<b>TFA1.a.3.m:</b> Identify employment opportunities in the textile and apparel services.	<b>TFA1.a.6.h:</b> Analyze the effects of textiles and apparel occupations on local, state, national and global economies.
			TFA1.a.7.h: Create an employment portfolio for use with applying for internships, work-based learning opportunities and employment in textiles, fashion and apparel.
	<b>TFA1.b.1.e:</b> Identify differences in fabrics.	<b>TFA1.b.2.m:</b> Evaluate performance characteristics of textile fiber and fabrics.	<b>TFA1.b.5.h:</b> Apply appropriate terminology for identifying, comparing and analyzing the most common generic textile fibers.
TFA1.b: Evaluate fiber and textile products and materials.  TFA1.c: Demonstrate fashion, apparel and		<b>TFA1.b.3.m:</b> Describe textile legislation, standards and labeling in the global economy.	<b>TFA1.b.6.h:</b> Analyze effects of textile characteristics on design, construction, care, use and maintenance of products.
		<b>TFA1.b.4.m:</b> Apply appropriate procedures for care of textile products.	<b>TFA1.b.7.h:</b> Analyze appropriate procedures for care of various textile products.
		<b>TFA1.c.1.m:</b> Select fabrics and fibers appropriate to various garments.	<b>TFA1.c.4.h:</b> Explain the ways in which fiber, fabric, texture, pattern and finish can affect visual appearance.
textile design skills.		<b>TFA1.c.2.m:</b> Demonstrate ability to use technology for fashion, apparel and textile design.	<b>TFA1.c.5.h:</b> Apply basic and complex color schemes and color theory to develop and enhance visual effects.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
			TFA1.c.6.h: Demonstrate design concepts with fabric or technology/computer, using draping and/or flat pattern making technique.
		<b>TFA1.c.3.m:</b> Discuss local recycle and redesign opportunities.	TFA1.c.7.h: Create a design that takes into consideration ecological, environmental, sociological, psychological, technical and economic trends and issues.
			<b>TFA1.c.8.h:</b> Apply elements and principles of design to assist consumers and businesses in making decisions.
<b>TFA1.d:</b> Demonstrate skills needed to produce, alter or repair fashion, apparel and textile products.		<b>TFA1.d.1.m:</b> Demonstrate skill for using equipment by constructing a single item in a class project.	<b>TFA1.d.4.h:</b> Demonstrate professional skills in using a variety of equipment, tools and supplies or fashion, apparel and textile construction, alteration and repair.
			<b>TFA1.d.5.h:</b> Explain production processes for creating fibers, yarn, woven and knit fabrics and non-woven textile products.
		<b>TFA1.d.2.m:</b> Assess effects of textile characteristics on design, construction, care, use and maintenance of products.	<b>TFA1.d.6.h:</b> Use appropriate industry products and materials for cleaning, pressing and finishing textile, apparel and fashion products.
			<b>TFA1.d.7.h:</b> Analyze current technology and trends that facilitate design and production of textile, apparel and fashion products.
		<b>TFA1.d.3.m:</b> Identify equipment and terminology used in fashion and apparel construction.	<b>TFA1.d.8.h:</b> Demonstrate basic skills for producing and altering textile products and apparel.
TFA1.e: Evaluate elements of textile,		<b>TFA1.e.1.m:</b> Apply marketing strategies for textile, apparel and fashion products.	<b>TFA1.e.3.h:</b> Analyze the cost of constructing, manufacturing, altering or repairing textile, apparel and fashion products.
apparel and fashion merchandising.			<b>TFA1.e.4.h:</b> Analyze ethical considerations for merchandising apparel and textile products.



	Performance Indicators (By Grade Band)		
Learning Priority	PK-5	6-8	9-12
			<b>TFA1.e.5.h:</b> Evaluate varied methods for promoting apparel and textile products.
		<b>TFA1.e.2.m:</b> Explore use of media to market apparel and textile products.	<b>TFA1.e.6.h:</b> Apply research methods, including forecasting techniques for marketing apparel and textile products.
		<b>TFA1.f.1.m:</b> Demonstrate the skills necessary for quality customer service.	<b>TFA1.f.4.h:</b> Analyze factors that contribute to quality customer relations.
<b>TFA1.f:</b> Evaluate the components of customer service.		<b>TFA1.f.2.m:</b> Identify the influences of cultural diversity in customer service and relations.	<b>TFA1.f.5.h:</b> Analyze the influences of cultural diversity as a factor in customer relations.
		<b>TFA1.f.3.m:</b> Examine solutions to address customer satisfaction.	<b>TFA1.f.6.h:</b> Create solutions to address customer concerns.
<b>TFA1.g:</b> Demonstrate general operational procedures required for business profitability and career success.			<b>TFA1.g.3.h:</b> Analyze legislation, regulations and public policy affecting the textiles, apparel and fashion industries.
			<b>TFA1.g.4.h:</b> Analyze personal and employer responsibilities and liabilities regarding industry-related safety, security and environmental factors.
			TFA1.g.5.h: Analyze the effects of security and inventory control strategies, cash and credit transaction methods, laws and worksite policies, on loss prevention and store profit.
		<b>TFA1.g.1.m:</b> Discuss procedures for reporting and handling incidents of customer complaints.	<b>TFA1.g.6.h:</b> Demonstrate procedures for reporting and handling accidents, safety and security incidents.
		<b>TFA1.g.2.m:</b> Explain the influences of sales and profit in the apparel and textile industry.	<b>TFA1.g.7.h:</b> Analyze operational costs such as mark ups, mark downs, cash flow and other factors affecting profit.
			<b>TFA1.g.8.h:</b> Demonstrate knowledge of the arts, of various resources and of cultural impact upon the textile, apparel and fashion industries.



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# **Section V**

Connecting Career and Technical Education to the Common Core State Standards



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#### **Connecting Career and Technical Education to the Common Core State Standards**

#### Introduction

In Wisconsin, the education vision is for every child to graduate ready for postsecondary education and the workforce—to be college and career ready. To achieve this vision, students must develop the skills to think, read, communicate and perform in many academic contexts. Since students must develop these specific skills, every educator must consider how students learn in their discipline.

In 2010, State Superintendent Tony Evers officially adopted the Common Core State Standards (CCSS) in English Language Arts, Mathematics and Literacy in All Subject Areas. The CCSS in Mathematics and English Language Arts are designed to be focused and coherent. Each is anchored in college and career readiness; as well as evidence and research-based. The CCSS signify the need to change practice in at least three areas: content, instruction and assessments. Building on the strength of the Common Core State Standards and the **Wisconsin Standards for Career and Technical Education**, educators in CTE must be knowledgeable in how both CTE and CCSS standards are addressed in their classrooms. Connections between the CCSS and CTE come in two forms.

#### Making the Connection: CCSS and CTE Content

- 1. Integration with Disciplinary Literacy (Literacy in All Subjects) and Standards for Mathematical Practice
  - Standards and Instruction- The knowledge and skills students learn in conjunction with content standards to assist students in reading, writing, speaking, listening and computing while using the specific knowledge and skills of the content area.
  - Assessment Standards should be measured through multiple assessments including performance-based assessments, like those used in CTE to measure technical skill attainment.
- 2. Direct "return on investment" within course content where standards from other content areas are embedded:
  - Standards and Instruction -- The use of multiple sets of standards to create relevance of content for students; both CTE AND content/standards from other subjects.
  - Assessment -- Standards should be measured through multiple assessments including performance-based assessments, like those used in CTE to measure technical skill attainment.
  - Equivalency Equivalency shows a one-to-one correlation between CCSS or other content areas such as science and social studies and CTE standards through a state approved equivalency process in conformity with the Wisconsin State Statute for equivalency credit (§ 118.33, Wis. Stats.). This is an option for CTE courses that prove to have sufficient academic content and are taught in a technical and applied setting.

When district administrators and teachers alike ask for "an alignment of CTE to the CCSS" there is uncertainty about what that means or looks like. It will take time for CTE and core teachers to review their standards before beginning to work collaboratively to see connections between sets of standards. The reality is that there is no easy "one-to-one" match between CTE and CCSS and other content standards—it is about changing the role of the teacher to not only be experts in their content area, but to engage in deep conversations with colleagues across all content areas to make strong connections for students.



#### The Connection

This visual shows the relationship of the CCSS and CTE Content that, when combined together and adding the standards from other content areas, ensures that students are college and career ready for further education in their chosen pathway.



#### Literacy in All Subjects: The Shift

The shift in English language arts means a shared responsibility across all grade levels for all students. Extensive research establishes the need for college and career ready students to be proficient in reading both complex literary text and informational texts independently across a variety of content areas. Literacy, the ability to read, write, listen, speak, think critically and perform in different ways and for different purposes, begins to develop early and becomes increasingly important as students pursue specialized fields of study in high school and beyond. The Common Core State Standards (CCSS) for Literacy in All Subjects† are connected to college and career readiness standards that guide educators as they strive to help students meet the literacy challenges within each particular field of study. This national effort is referred to as "disciplinary literacy" that prepares students for college and career readiness.

In Wisconsin, disciplinary literacy is defined as the confluence of content knowledge, experiences and skills merged with the ability to read, write, listen, speak, think critically and perform in a way that is meaningful within the context of a given field.

~ Taken from "Literacy in All Subjects."



Disciplinary Literacy will look different in every classroom based upon the nature of the academic standards addressed within the course and the types of reading and writing required to convey knowledge. Students are reading texts to gain knowledge about the discipline; teachers are engaging students with questions and performance tasks; students are writing/composing/creating.

For the first time ever, the Common Core State Standards identify the specific literacy skills that should be a part of the Career and Technical Education (CTE) and other disciplines. The task, as experts, is to expose students to the authentic literacy activities of the discipline and teach students how to interact with content effectively. It is often taken for granted that by high school, students should be able to read what is given to them, but research now shows otherwise. The standards make it clear: Literacy must be taught—not assigned—within every classroom, every day.

"Literacy is a prerequisite to learning in all other subjects, especially as students are exposed to increasingly diverse and intricate texts from which they need to glean knowledge. Unfortunately, too many adolescents lack the literacy skills necessary to navigate the reading and writing requirements of



high school and the future world in which they will work and live...While educators around the country are seeking ways to address this [literacy] challenge, career and technical education (CTE) programs are stepping up to offer students a rigorous and relevant education rich in literacy content and strategies. CTE courses, often overlooked in academic discussions, can have a tremendous impact on students' literacy engagement and achievement and must be considered as part of the adolescent literacy solution."

~CTE's Role in Adolescent Literacy. Issue Brief, November 2009, Association for Career and Technical Education

Mathematical Practices: The Shift

"When today's students become adults, they will face new demands for mathematical proficiency that school mathematics should attempt to anticipate. Moreover, mathematics is a realm no longer restricted to a select few. All young Americans must learn to think mathematically and they must think mathematically to learn."

The shift in mathematics processes means students are able to transfer math skills and understanding across concepts and grades. Focus allows each student to think, practice and integrate new ideas into a growing knowledge structure. Mathematical proficiency is necessary for every student. Therefore, understanding concepts and being fluent are both important.

This means teaching more than "how to get the answer" and instead support students' ability to access concepts from a number of perspectives while demonstrating conceptual understanding of core math concepts by applying them to new situations. Teachers in content areas outside of math, particularly science and CTE, ensure students are using math at all grade levels to make meaning of and access content. Educators must intentionally engage students at all levels, so they are readily able to apply mathematics in their ever-changing world.

By combining the mathematical practices and CTE standards, it allows the teacher to build on students' prior learning from multiple content areas. Students are able to see the relevance of their learning in their chosen career pathway and deepen their learning by transferring skills and concepts.

# Standards for Mathematical Practice 1. Make sense of positions and possessor in solving them. 2. Resums abstractly and quantizatively. 3. Construct viable arguments and orbique the massing of others. 4. Madel with mathematics. 5. Use appropriate trush strategically. 6. Attend to precision. 7. Lank for and express regularity in repeated massing.

~Adding It Up, National Research Council, 2001

#### **Connecting to Other Content Area Standards**

Career and Technical Education courses and programs are the quintessential convergence of standards from numerous content areas. Not only do students learn the knowledge and skills necessary for successful transition to college and careers, they also practice and apply their learning in real-life instructional situations that prepare them for specific entry-level careers and postsecondary studies. Along with CTE specific standards, students are also applying and reinforcing the standards learned in many other areas of study; such as, science, arts and creativity, social studies and mathematics. Educators should be considering how standards from other content areas are incorporated into instruction and assessments within CTE courses and units.



Other standards, such as the Wisconsin Model Academic Standards for Personal Financial Literacy, National Content Standards for Entrepreneurship and the Career Cluster's Green/Sustainability Standards, can easily be embedded into CTE coursework curriculum and activities to reinforce the knowledge and skills that are important for every future employee and citizen.

Showcasing the connections made through CTE courses and programs serves to illustrate student mastery of all of these areas that make them truly ready for the next stage of their lives.

#### **Performance Tasks**

Wisconsin is a Smarter Balanced Assessment Consortium (SBAC) state, so the Theory of Action outlined by SBAC for creating performance tasks have been adapted for Wisconsin's classrooms. Performance tasks challenge students to apply their knowledge and skills to respond to real-world problems. They can best be described as collections of questions and activities that are coherently connected to a single theme or scenario. These activities are meant to measure capacities such as depth of understanding, research skills and complex analysis, which cannot be adequately assessed with selected- or constructed-response items.

When determining performance tasks, teachers need to determine **the purpose** of the performance task: Is the performance task going to plan, support, monitor or verify learning? Teachers need to determine **the type** of assessment the performance task is going to be: Is the performance task going to be a formative, benchmark or summative assessment?

Once that is decided, then teachers can design the performance task. A performance task presents students with a complex, real-world challenge in which the scenario, role, process and product are authentic; students must then demonstrate that they have the skills and knowledge to complete the task.

#### Elements of a performance task:

- Integrate knowledge and skills across multiple content standards or strands within a content area.
- Measure capacities such as depth of understanding, research skills, complex analysis and identification/providing of relevant evidence.
- Require student-initiated planning, management of information and ideas, interaction with other materials.
- Require production of extended responses, such as oral presentations, exhibitions and other scorable products, including more extended
  written responses, which might be revised and edited.
- Reflect a real-world task and/or scenario-based problem.
- Allow for multiple approaches.
- Represent content that is relevant and meaningful to students.



- Allow for demonstration of important knowledge and skills, including those that address 21st-century skills such as critically analyzing and synthesizing information presented in a variety of formats, media, etc.
- Require scoring that focuses on the essence of the task.
- Be feasible for the school/classroom environment.

In the next section there are examples of implementing CCSS into specific content areas through the use of performance tasks using sentence frames like the one shown below.

After reading/listening/viewing/researching		(texts),
write/create/present	(product) for	(audience)
that provides an/a explanation/argument/narrative		(content) so
that	(purpose/so what).	

<sup>†</sup>Transformed in Wisconsin from the Common Core State Standards for Literacy in Science, Social Studies, History and Technical Subjects.



#### **Connecting Family and Consumer Sciences to the Common Core State Standards**

#### **Connecting To Academic Standards through Performance Tasks**

Once the purpose and type of performance task is decided, teachers can then design the performance task. A performance task presents students with a complex, real-world challenge in which the scenario, role, process and product are authentic; students must then demonstrate that they have the skills and knowledge to complete the task.

Displayed below is an example of a tool known as a sentence frame that may be used to develop a performance task in a Family and Consumer Sciences course. Implementing CCSS may look different for every teacher, every program, every course and potentially every unit. Once a performance task has been identified, then an instructor may connect the task to academic standards associated with the respective content area within Family and Consumer Sciences, as well as within other academic areas.

(Example 1: grades 11-12 performance task in standards related to food production and serviced, food science and nutrition, hospitality and tourism and/or nutrition and wellness.

After reading/esearching/bistening/viewing various types of food service operations (write/create/present the seven principles of food management systems for high school student s who will pursue pathways in the food service industry (audience) that provides a/an explanation argument/narrative of the procedures and practices (content) of the prevention for food borne illnesses by controlling risks and hazards throughout the flow of food in a food service operation. (purpose/so what).

The following academic standard(s) are addressed through the performance task displayed above:

#### **Family and Consumer Sciences**

**FPS1.b:** Demonstrate food safety and sanitation procedures

FPS1.c: Demonstrate industry standards in selecting, using and maintaining food production and food service equipment.

**FSDN1.b:** Apply risk management procedures to food safety, food testing and sanitation.

HTR1.b: Demonstrate procedures applied to safety, security and environmental issues.

**NW1.d:** Evaluate factors that affect food safety from production through consumption.

#### **Literacy Standards**

**Anchor Standard for Reading 1:** Cite specific textual evidence to support analysis of science and technical texts, attending to the precise details of explanations or descriptions.

**Anchor Standard for Reading 2:** Determine the central ideas or conclusions of a text; trace the text's explanation or depiction of a complex process, phenomenon or concept; provide an accurate summary of the text.

**Anchor Standard for Reading 9:** Synthesize information from a range of sources (e.g., texts, experiments, simulations) into a coherent understanding of a process, phenomenon, concept, resolving, conflicting information when possible.

**Anchor Standard for Writing 4:** Produce clear and coherent writing in which the development organization and style are appropriate to task, purpose and audience.

**Anchor Standard for Writing 7:** Conduct short as well as more sustained research projects to answer a question (including a self-generated question) or solve a problem; narrow or broaden the inquiry when appropriate; synthesize multiple sources on the subject, demonstrating understanding of the subject under investigation.

**Anchor Standard for Writing 9**: Draw evidence from informational texts to support analysis, reflection and research.



**Anchor Standard for Speaking and Listening 4**: Present information, findings and supporting evidence, conveying a clear and distinct perspective, such that listeners can follow the line of reasoning, alternative or opposing perspectives are addressed and the organization, development, substance and style are appropriate to purpose, audience and a range of formal and informal tasks.

#### **Mathematical Practices**

Make sense of problems and persevere in solving them.

Reason abstractly and quantitatively.

Construct viable arguments and critique the reasoning of others.

#### **Other Content Standards Alignment**

Science

**Health Sciences** 

#### (Example 2: grade 6-8 performance task in a family and consumer sciences comprehensive course)

After reading/researching/listening/viewing resources on the relationship between education, income, career and desired lifestyle (texts), write/create/present (product) a plan for various spending choices for middle school students (audience) that provides a/an explanation/argument/narrative of the life choices (content) so that students can designate how incomes affects decisions to purchase and spend disposable income. (purpose/so what).

The following academic standard(s) are addressed through the performance task displayed above:

#### **Family and Consumer Sciences**

**CRF1:** Demonstrate management of individual and family resources such as food, clothing, shelter, health care, recreation, transportation, time and human capital.

**CRF1:** Demonstrate management of financial resources to meet the goals of individuals and families across the life span.

**CS1:** Analyze factors in developing a long-term financial management plan.

#### **Literacy Standards**

**Anchor Standard for Reading 2:** Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.

**Anchor Standard for Reading 4:** Determine the meaning of symbols, key terms and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics.

**Anchor Standard for Writing 4:** Produce clear and coherent writing in which the development organization and style are appropriate to task, purpose and audience.

#### **Mathematical Practices**

Reason abstractly and quantitatively.

Construct viable arguments and critique the reasoning of others.

Use appropriate tools strategically.

#### **Other Content Standards Alignment**

Mathematics

Personal Financial Literacy

Social Studies/Economics



#### The Value of Family and Consumer Sciences

Through an example of a common performance task, the documentation above identifies that the connection to academic standards extends far beyond the Family and Consumer Sciences classroom. Critical knowledge and skills are developed through performance tasks which challenge a student to apply prior knowledge emphasized in other academic areas when combined with discipline specific content in Family and Consumer Sciences. Additionally, the discipline specific performance task can play a critical role in providing an opportunity for student growth in other core academic areas when this connection to an elective program of study is clearly made through classroom instruction. This reflective practice of combining Family and Consumer Sciences Content Standards plus Literacy in All Subject Standards and Standards for Mathematical Practices plus standards for other content areas equals a greater assurance that students are college and career ready.



#### **Reaching Every Student; Reaching Every Discipline**

#### **Reaching Every Student**

The CCSS set high, clear and consistent expectations for all students. In order to ensure that all students can meet and exceed those expectations, Wisconsin educators provide flexible and fluid support based on student need. Each student brings a complex system of strengths and experiences to learning. One student may have gifts and talents in mathematics and need additional support to reach grade-level standards in reading. A student may be learning English as a second language while remaining identified for gifted services in science. The following statements provide guidance for how to ensure that the CCSS provide the foundation for learning for every student in Wisconsin, regardless of their unique learning needs.

#### Application of Common Core State Standards for English Language Learners

The National Governors Association Center for Best Practices and the Council of Chief State School Officers strongly believe that all students should be held to the same high expectations outlined in the Common Core State Standards. This includes students who are English language learners (ELLs). However, these students may require additional time, appropriate instructional support and aligned assessments as they acquire both English language proficiency and content area knowledge.

ELLs are a heterogeneous group with differences in ethnic background, first language, socioeconomic status, quality of prior schooling and levels of English language proficiency. Effectively educating these students requires pre-assessing each student instructionally, adjusting instruction accordingly and closely monitoring student progress. For example, ELLs who are literate in a first language that shares cognates with English can apply first-language vocabulary knowledge when reading in English; likewise ELLs with high levels of schooling can often bring to bear conceptual knowledge developed in their first language when reading in English. However, ELLs with limited or interrupted schooling will need to acquire background knowledge prerequisite to educational tasks at hand. Additionally, the development of native-like proficiency in English takes many years and may not be achieved by all ELLs especially if they start schooling in the US in the later grades. Teachers should recognize that it is possible to achieve the standards for reading and literature, writing and research, language development and speaking and listening without

manifesting native-like control of conventions and vocabulary.

#### **English Language Arts**

The Common Core State Standards for English Language Arts (ELA) articulate rigorous grade-level expectations in the areas of reading, writing, speaking, listening to prepare all students to be college and career ready, including English language learners. Second-language learners also will benefit from instruction about how to negotiate situations outside of those settings so they are able to participate on equal footing with native speakers in all aspects of social, economic and civic endeavors.

ELLs bring with them many resources that enhance their education and can serve as resources for schools and society. Many ELLs have first language and literacy knowledge and skills that boost their acquisition of language and literacy in a second language; additionally, they bring an array of talents and cultural practices and perspectives that enrich our schools and society. Teachers must build on this enormous reservoir of talent and provide those students who need it with additional time and appropriate instructional support. This includes language proficiency standards that teachers can use in conjunction with the ELA standards to assist ELLs in becoming proficient and literate in English. To help ELLs meet high academic standards in language arts it is essential that they have access to:

- Teachers and personnel at the school and district levels who are well prepared and qualified to support ELLs while taking advantage of the many strengths and skills they bring to the classroom;
- Literacy-rich school environments where students are immersed in a variety of language experiences;
- Instruction that develops foundational skills in English and enables ELLs to participate fully in grade-level coursework;
- Coursework that prepares ELLs for postsecondary education or the workplace, yet is made comprehensible for students learning content in a second language (through specific pedagogical techniques and additional resources);
- Opportunities for classroom discourse and interaction that are well-designed to enable ELLs to develop communicative strengths in language arts;
- Ongoing assessment and feedback to guide learning; and



 Speakers of English who know the language well enough to provide ELLs with models and support.

#### **Application to Students with Disabilities**

The Common Core State Standards articulate rigorous grade-level expectations in the areas of mathematics and English language arts. These standards identify the knowledge and skills students need in order to be successful in college and careers.

Students with disabilities, students eligible under the Individuals with Disabilities Education Act (IDEA), must be challenged to excel within the general curriculum and be prepared for success in their post-school lives, including college and/or careers. These common standards provide an historic opportunity to improve access to rigorous academic content standards for students with disabilities. The continued development of understanding about research-based instructional practices and a focus on their effective implementation will help improve access to mathematics and English language arts (ELA) standards for all students, including those with disabilities. Students with disabilities are a heterogeneous group with one common characteristic: the presence of disabling conditions that significantly hinder their abilities to benefit from general education (IDEA 34 CFR §300.39, 2004). Therefore, how these high standards are taught and assessed is of the utmost importance in reaching this diverse group of students.

In order for students with disabilities to meet high academic standards and to fully demonstrate their conceptual and procedural knowledge and skills in mathematics, reading, writing, speaking and listening (English language arts), their instruction must incorporate supports and accommodations, including:

- Supports and related services designed to meet the unique needs of these students and to enable their access to the general education curriculum (IDEA 34 CFR §300.34, 2004).
- An Individualized Education Program (IEP)<sup>1</sup> which includes annual goals aligned with and chosen to facilitate their attainment of grade-level academic standards.
- Teachers and specialized instructional support personnel who are prepared and qualified to deliver high-quality, evidencebased, individualized instruction and support services.

Promoting a culture of high expectations for all students is a fundamental goal of the Common Core State Standards. In order to participate with

success in the general curriculum, students with disabilities, as appropriate, may be provided additional supports and services, such as:

- Instructional supports for learning, based on the principles of Universal Design for Learning (UDL),<sup>2</sup> which foster student engagement by presenting information in multiple ways and allowing for diverse avenues of action and expression.
- Instructional accommodations (Thompson, Morse, Sharpe & Hall, 2005), changes in materials or procedures, which do not change the standards but allow students to learn within the framework of the Common Core.
- Assistive technology devices and services to ensure access to the general education curriculum and the Common Core State Standards.

Some students with the most significant cognitive disabilities will require substantial supports and accommodations to have meaningful access to certain standards in both instruction and assessment, based on their communication and academic needs. These supports and accommodations should ensure that students receive access to multiple means of learning and opportunities to demonstrate knowledge, but retain the rigor and high expectations of the Common Core State Standards.

# Implications for the Common Core State Standards for Students with Gifts and Talents

The CCSS provide a roadmap for what students need to learn by benchmarking expectations across grade levels. They include rigorous content and application of knowledge through higher-order skills. As such, they can serve as a foundation for a robust core curriculum, however, students with gifts and talents may need additional challenges or curricular options. In order to recognize what adaptations need to be made or what interventions need to be employed, we must understand who these students are.

According to the National Association for Gifted Children (2011), "Giftedness, intelligence and talent are fluid concepts and may look different in different contexts and cultures" (para. 1). This means that there are students that demonstrate high performance or have the potential to do so in academics, creativity, leadership and/or the visual and performing arts. Despite this diversity there are common characteristics that are important to note.



Students with gifts and talents:

- Learn at a fast pace.
- Are stimulated by depth and complexity of content.
- Make connections.

These traits have implications for how the Common Core State Standards are used. They reveal that as curriculum is designed and instruction is planned there must be:

 Differentiation based on student readiness, interest and learning style:

Pre-assessing in order to know where a student stands in relation to the content that will be taught (readiness), then teach those standards that the student has not mastered and enrich, compact and/or accelerate when standards have been mastered. This might mean using standards that are beyond the grade level of the student.

Knowledge of our students so we are familiar with their strengths, background knowledge, experiences, interests and learning styles.

Flexible grouping to provide opportunities for students to interact with peers that have similar abilities, similar interests and similar learning styles (homogenous grouping), as well as different abilities, different interests and different learning styles (heterogeneous grouping).

Differentiation of content, process and product.

Use of a variety of materials (differentiating content) to provide challenge. Students may be studying the same concept using different text and resources.

Variety of tasks (differentiating process). For example in a science lesson about the relationship between temperature and rate of melting, some students may use computer-enhanced thermometers to record and graph temperature so they can concentrate on detecting patterns while other students may graph temperature at one-minute intervals, then examine the graph for patterns.

Variety of ways to demonstrate their learning (differentiating product). These choices can provide opportunities for students with varying abilities, interests and learning styles to show what they have discovered.

Adjustment to the level, depth and pace of curriculum.

Compact the curriculum to intensify the pace.

Vary questioning and use creative and critical thinking strategies to provide depth.

Use standards beyond the grade level of the students. Since the CCSS provide a PK-12 learning progression, this is easily done. Accelerate subject areas or whole grades when appropriate.

Match the intensity of the intervention with the student's needs. This means that we must be prepared to adapt the core curriculum and plan for a continuum of services to meet the needs of all students, including those with gifts and talents.



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#### What is Disciplinary Literacy?

Literacy, the ability to read, write, listen, speak, think critically and perform in different ways and for different purposes, begins to develop early and becomes increasingly important as students pursue specialized fields of study in high school and beyond. The Common Core State Standards (CCSS) for Literacy in Science, Social Studies, History and the Technical Subjects are connected to College and Career Readiness Standards that guide educators as they strive to help students meet the literacy challenges within each particular field of study. This national effort is referred to as disciplinary literacy.

In Wisconsin, disciplinary literacy is defined as the confluence of content knowledge, experiences and skills merged with the ability to read, write, listen, speak, think critically and perform in a way that is meaningful within the context of a given field.

These abilities are important in ALL courses and subjects. While the Common Core State Standards (CCSS) for Literacy in Science, Social Studies, History and the Technical Subjects provide standards for cross-discipline reading and writing in grades 6-12, Wisconsin recognizes the need to broaden this effort and include all disciplines and every educator in every grade level K-12. This literacy focus must begin as soon as children have access to formal education and continue intentionally as college and career readiness goals advance for all children in Wisconsin.

To address this expanded definition and approach to disciplinary literacy, excerpts from the K-5 Common Core State Standards for English Language Arts are included in this document. Elementary classroom teachers build the foundational literacy skills necessary for students to access all learning. Additionally, they develop content specific to deep literary study oratory tradition and linguistic analysis; skills specific to English language arts. Literacy reaches beyond this knowledge in one content area to include reading, writing, listening, speaking and thinking critically in each discipline beginning at an early age. The applicable K-5 standards help educators in Wisconsin build a ladder of skills and dispositions that lead to accelerated achievement across disciplines and will be included in every content-specific standards document into the future.

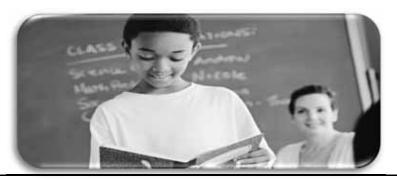
#### Why is disciplinary literacy important?

The modern global society, of which our students are a part, requires postsecondary learning. An analysis of workforce trends by Georgetown University economist Anthony Carnevale and his colleagues found that nearly 60 percent of all job openings in 2007 required some postsecondary education; postsecondary success depends on students' ability to comprehend and produce the kinds of complex texts found in all disciplines. Therefore, the economic future of our state, as well as our students and their success as productive citizens and critical thinkers link to disciplinary literacy.

Textbooks, articles, manuals and historical primary source documents create specialized challenges for learners. These texts often include abstracts, figures, tables, diagrams and specialized vocabulary. The ideas are complex and build across a number of paragraphs requiring focus and strategic processing. To comprehend and produce this type of text, students must be immersed in the language and thinking processes of that discipline and they must be supported by an expert guide, their teacher (Carnegie Report, 2010).

A focus at the elementary level on foundational reading, when expanded to include engaging experiences connected to informational texts, vocabulary and writing for content-specific purposes builds background knowledge and skills in each discipline. This increases opportunities for success as students approach more rigorous content in those disciplines (Alliance for Excellent Education, 2011).

Reading, writing, speaking, listening and critical thinking must be integrated into each discipline across all grades so that all students gradually build knowledge and skills toward college and career readiness. Collaboration among institutes of higher education, CESA Statewide Network, districts, schools, teachers and family and community will guide the implementation of the Common Core State Standards in Wisconsin.





The message is that literacy is integral to attainment of content knowledge and content is essential background knowledge for literacy development. This interdependent relationship exists in all disciplines.

The Common Core State Standards require educators to support literacy in each classroom across the state. Since the impact of this effort is significant, it is essential that resources and supports be accessible to all educators. To build consistent understanding, DPI convened a statewide Disciplinary Literacy Leadership Team in 2011 comprised of educators from many content areas and educational backgrounds. This team was charged with examining the CCSS for Disciplinary Literacy, identifying the needs in the field for support and gathering materials and resources to address those needs.



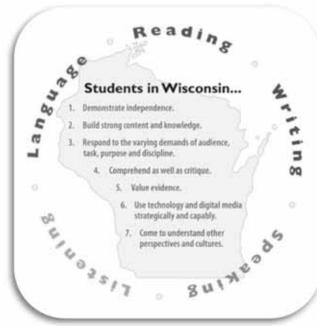


#### **Wisconsin Foundations for Disciplinary Literacy**

To guide understanding and professional learning, a set of foundations, developed in concert with Wisconsin's *Guiding Principles* for Teaching and Learning, directs Wisconsin's approach to disciplinary literacy.

Academic learning begins in early childhood and develops across all disciplines.

Each discipline has its own specific vocabulary, text types and ways of communicating. Children begin learning these context- and contentspecific differences early in life and continue through high school and beyond. While gardening, small children observe and the form and function of a root, stem, leaf and soil: or measure, mix and blend while baking a cake. School offers all students opportunities to develop the ability to, for example, think like a scientist, write like a historian, critique like an artist, problem-solve like an auto mechanic or analyze technological advances like a health care technician. As literacy skills develop, educators gradually shift the responsibility for reading, writing, listening, speaking and critical thinking to students through guided supports in both individual and collaborative learning experiences.



The literacy skills of reading, writing, listening, speaking and critical thinking improve when content-rich learning experiences motivate and engage students.

Educators who foster disciplinary literacy develop experiences that integrate rigorous content with relevant collaborative and creative literacy processes to motivate and engage students. Setting high expectations,

they structure routines and supports that empower students to take charge of their own learning. When students work in teams to research science and mathematics concepts in the development of an invention or a graphic arts design; when they collaboratively build a blog that contains their recent marketing venture, they use specific literacy skills and strategies to solidify learning. Students need these opportunities over time to develop the precise and complex reading, writing, listening, speaking and critical thinking skills demanded in today's careers.

Students demonstrate their content knowledge through reading, writing, listening and speaking as part of a content-literate community.

Students who are literate in a particular discipline are able to successfully read, write and speak about that discipline and can listen to and think critically as others communicate in that community.

Performance tasks that allow students to present the complexity of a content area in a way that is meaningful to the field become authentic

approaches to assessing mastery within a discipline. Such tasks empower students to discover the real world connections across disciplines and to actively participate in communities of discipline-literate peers. As Wisconsin moves to the SMARTER Balanced Assessment System these performance tasks will be integral to assessment of student learning.

# Content knowledge is strengthened when educators integrate discipline-specific literacy into teaching and learning.

Educators help students recognize and understand the nuances of a discipline by using strategies that "make their thinking visible." They promote classroom reading, writing, listening, speaking and critical thinking using authentic materials that support the development of content-specific knowledge. They guide students through these complex texts by using strategies that develop conceptual understanding of language and set expectations for relevant application of skills. These literacy practices deepen students' content knowledge, strategies and skills so that their learning transfers to real world situations.



# What research and resources are available to support educators' use of the Common Core State Standards for Literacy in All Subjects?

The Common Core State Standards for Literacy in All Subjects reflect the importance of literacy in both the oral and written language and in both productive (speaking and writing) and receptive (listening and reading) discourse. Clearly, critical and precise thinking are required to develop all of these specific strategies and skills. The standards also address the learning and functioning of language in a technological, media-driven world because the language that we use is selective depending upon the context of the conversation.

The following section will offer relevant research and resources to support professional learning in reading, writing, speaking, listening and language across disciplines. Collegial conversation and learning, both cross-discipline and within-discipline will help make the Common Core State Standards more applicable to schools and districts and will address the needs of unique programs within those contexts. A collection of online resources will continue to develop as support materials emerge.

#### **Reading Connections**

While early reading focuses on learning that letters make sounds and that words carry meaning, reading quickly develops to a point where the message taken from text depends on what the reader brings to it. The Carnegie Report, *Reading in the Disciplines* (2010) describes this phenomenon:

"The ability to comprehend written texts is not a static or fixed ability, but rather one that involves a dynamic relationship between the demands of texts and prior knowledge and goals of the reader."

Therefore, a musician reading a journal article that describes concepts in music theory will take more information away from the text than a music novice because of their knowledge and experience in music. As well, an individual who spends a significant amount of time reading automotive manuals will more easily navigate a cell phone manual because of familiarity with that type of text.

A chart excerpted from the Carnegie Report (2010) details a few of the generic and more discipline-specific strategies that support students as they attempt to comprehend complex text. While the generic strategies pertain across content areas, discipline-specific ones must be tailored to match the demands of the content area.

Both generic and discipline focused strategies and knowledge must be applied to the comprehension and evaluation of:

- Textbooks
- Journal and magazine articles
- Historically situated primary documents
- Full Length Books
- Newspaper Articles
- Book Chapters
- Multimedia and Digital Texts



Generic Reading Strategies	Discipline-Specific Reading
	Strategies
Monitor comprehension	Build prior knowledge
Pre-read	Build specialized vocabulary
Set goals	Learn to deconstruct complex
Think about what one already	sentences
knows	Use knowledge of text structures
Ask questions	and genres to predict main and subordinate ideas
Make predictions	Map graphic (and mathematical)
Test predictions against the text	representations against
Re-read	explanations in the text
Summarize	Pose discipline relevant questions
	Compare claims and propositions across texts
	Use norms for reasoning within the discipline (i.e. what counts as evidence) to evaluate claims

Source: Carnegie Report, (2010)

Additional resources that support reading in specific subjects include *Content Counts! Developing Disciplinary Literacy Skills, K–6* by Jennifer L. Altieri (2011). This guide for discipline-specific literacy at the elementary level offers strategies to balance the demands of literacy while continuing to make content count and help students meet the reading, writing, speaking and listening demands of the content areas as they advance in school.

A resource by Doug Buehl (2011) entitled *Developing Readers in the Academic Disciplines* describes what it means to read, write and think through a disciplinary lens in the adolescent years. This teacher-friendly guide helps connect literacy with disciplinary understandings to bridge academic knowledge gaps, frontload instruction and build critical thinking through questioning.

#### Note on range and content of student reading

To become college and career ready, students must grapple with works of exceptional craft and thought whose range extends across genres, cultures and centuries. Such works offer profound insights into the human condition and serve as models for students' own thinking and writing. Along with high-quality contemporary works, these texts should be chosen from seminal U.S. documents, the classics of American literature and the timeless dramas of Shakespeare. Through wide and deep reading of literature and literary nonfiction of steadily increasing sophistication, students gain a reservoir of literary and cultural knowledge, references and images; the ability to evaluate intricate arguments; and the capacity to surmount the challenges posed by complex texts. (CCSS p. 35 http://www.corestandards.org/assets/CCSSI\_ELA%20Standards.pdf)

The Common Core State Standards require that all students "be able to comprehend texts of steadily increasing complexity as they progress through school" (Appendix A: Research Supporting Key Elements of the Standards, p. 2). More detailed definitions of complex text and examples of complex texts across disciplines are available in Appendix B of the English Language Arts CCSS.

#### **Writing Connections**

The Common Core State Standards call for emphasis on three types of writing: narrative, informational and logical argument. Writing that presents a logical argument is especially appropriate to discipline-specific work since credible evidence differs across content areas. The ability to consider multiple perspectives, assess the validity of claims and present a point of view is required in argumentative writing. These thinking and communication skills are "critical to college and career readiness".

A 2007 report entitled Writing Next: Effective Strategies to Improve Writing of Adolescents in Middle and High Schools detailed research on writing to learn, rather than only for assessment, as having a significant impact on content learning.



The study found writing to learn was equally effective for all content areas in the study (social studies, math and science) and at every grade (4-12).

#### Note on range and content of student writing

For students, writing is a key means of asserting and defending claims, showing what they know about a subject and conveying what they have experienced, imagined, thought and felt. To be college and career ready writers, students must take task, purpose and audience into careful consideration, choosing words, information, structures and formats deliberately. They need to know how to combine elements of different kinds of writing—for example, to use narrative strategies within an argument and explanation within narrative—to produce complex and nuanced writing. They need to be able to use technology strategically when creating, refining and collaborating on writing. They have to become adept at gathering information, evaluating sources and citing material accurately, reporting findings from their research and analysis of sources in a clear and cogent manner. They must have flexibility, concentration and fluency to produce high quality first draft text under a tight deadline as well as the capacity to revisit and make improvements to a piece of writing over multiple drafts when circumstances encourage or require it. (CCSS p.41

http://www.corestandards.org/assets/CCSSI\_ELA%20Standards.pdf)

When a social studies teacher guides students in taking on the perspective of a person from a specific historical era, she might ask students to write a first person narrative from that perspective. Research into that era leads students to discover personal beliefs of that historical person. They may dig into the personal experiences, ideas and events involved in the era to visualize life in that period. They then develop a rich understanding of the era and embed language from that era into the texts that they create. (Samples of discipline-specific writing across grades and content areas are available in Appendix C of the English Language Arts CCSS.

#### **Speaking, Listening and Language Connections**

The ability to share ideas and orally communicate with credibility in a specific academic discourse empowers students and allows access to specialized groups. In *Situated Language and Learning: A Critique of Traditional Schooling, James Paul Gee* (2004) describes the need to prioritize these skills so that students are at ease as they enter situations connected to a specific content area and are more likely to continue their learning in that discipline.

As expertise develops, students feel more and more comfortable applying knowledge and skills while speaking and listening in a specific discipline.

- A media course may teach students appropriate expression, tone and rate of speech when addressing a large audience.
- Listening carefully to questions posed is a specialized skill that debate facilitators develop.
- Scientists learn to listen for bias in the perspectives presented by peers to determine the reliability of scientific outcomes.
- Artists have very specialized and specific ways of speaking about the many aspects of a piece.

A policy brief from the Alliance for Excellent Education called, Engineering Solutions to the National Crisis in Literacy: How to Make Good on the Promise of the Common Core State Standards describes "a staircase of literacy demands" and emphasizes the importance of a progressive development of language and literacy over time.

The conceptual understanding of "functions" in mathematics may begin to develop in elementary school in its simplest form. As the concept develops over the years, students will use the word "function" in a meaningful way when speaking and writing to describe the mathematical concept they apply. When educators explicitly connect a mathematical term to its application and repeatedly expose students to the concept connected to the term, a specialized language becomes second nature to the mathematics classroom.

Students must have extensive vocabularies, built through reading and explicit instruction embedded in the context of content learning. This enables them to comprehend complex texts, engage in purposeful writing and communicate effectively within a discipline.



Skills in determining or clarifying the meaning of words and phrases encountered, choosing flexibly from an array of strategies and seeing an individual word as part of a network of other words that, for example, have similar denotations but different connotations allow students to access information and support their own learning.

#### **Literacy in Multiple Languages**

Increasing economic, security, cross-cultural and global demands underscore the value of literacy in more than one language. Students who think, read, write and communicate in multiple languages are an asset to our own country and can more easily interact and compete in the world at large.

English language learners (ELL) in our classrooms face significant challenges as they add a new language and work to grasp content at the same rate as their English-speaking peers. In a report to the Carnegie Corporation entitled *Double the Work: Challenges and Solutions to Acquiring Academic Literacy for Adolescent English Language Learners (2007)* researchers found that a focus on academic literacy is crucial for ELL's success in school. In their description of academic literacy they include reading, writing and oral discourse that:

- Varies from subject to subject.
- Requires knowledge of multiple genres of text, purposes for text use and text media.
- Is influenced by students' literacies in context outside of school.
- Is influenced by students' personal, social and cultural experiences.

The needs of our English language learners are addressed when we embed disciplinary literacy strategies into our subject area teaching. These high impact strategies and skills allow English language learners and all students to more readily access content knowledge and connect it to the prior knowledge they bring to the classroom. When educators take the initiative to understand and embed these strategies and skills, they offer additional opportunities for success to all of our students.

# Who Should Use the Common Core State Standards for Literacy in All Subjects?

The term "disciplinary literacy" may be new to many Wisconsin teachers. The Common Core State Standards for Literacy in All Subjects, as excerpted from the Common Core Standards for English Language Arts, are intended for all PK-12 educators. Each standard is written broadly in content-neutral language, breaking down the complex skills that comprise reading, writing, speaking, listening and language. These standards serve as a complement to the specific content-related standards of each individual discipline. Administrators and communities may also find the disciplinary literacy standards helpful in charting a clear and consistent school or district-wide approach to literacy that moves Wisconsin forward toward the goal of every student career and college ready.





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#### **Key Design Considerations**

#### CCR and grade-specific standards

The CCR standards anchor the document and define general, cross-disciplinary literacy expectations that must be met for students to be prepared to enter college and workforce training programs ready to succeed. The K-12 grade-specific standards define end-of-year expectations and a cumulative progression designed to enable students to meet college and career readiness expectations no later than the end of high school. The CCR and high school (grades 9–12) standards work in tandem to define the college and career readiness line—the former providing broad standards, the latter providing additional specificity. Hence, both should be considered when developing college and career readiness assessments.

Students advancing through the grades are expected to meet each year's grade-specific standards, retain or further develop skills and understandings mastered in preceding grades, and work steadily toward meeting the more general expectations described by the CCR standards.

#### Grade levels for K-8; grade bands for 9-10 and 11-12

The Standards use individual grade levels in kindergarten through grade 8 to provide useful specificity; the Standards use two-year bands in grades 9–12 to allow schools, districts, and states flexibility in high school course design.

#### A focus on results rather than means

By emphasizing required achievements, the Standards leave room for teachers, curriculum developers, and states to determine how those goals should be reached and what additional topics should be addressed. Thus, the Standards do not mandate such things as a particular writing process or the full range of metacognitive strategies that students may need to monitor and direct their thinking and learning. Teachers are thus free to provide students with whatever tools and knowledge their professional judgment and experience identify as most helpful for meeting the goals set out in the Standards.

#### An integrated model of literacy

Although the Standards are divided into Reading, Writing, Speaking and Listening, and Language strands for conceptual clarity, the processes of communication are closely connected, as reflected throughout this document. For example, Writing standard 9 requires that students be able to write about what they read. Likewise, Speaking and Listening standard 4 sets the expectation that students will share findings from their research.

#### Research and media skills blended into the Standards as a whole

To be ready for college, workforce training, and life in a technological society, students need the ability to gather, comprehend, evaluate, synthesize, and report on information and ideas, to conduct original research in order to answer questions or solve problems, and to analyze and create a high volume and extensive range of print and nonprint texts in media forms old and new. The need to conduct research and to produce and consume media is embedded into every aspect of today's curriculum. In like fashion, research and media skills and understandings are embedded throughout the Standards rather than treated in a separate section.

#### Shared responsibility for students' literacy development

The Standards insist that instruction in reading, writing, speaking, listening, and language be a shared responsibility within the school. The K-5 standards include expectations for reading, writing, speaking, listening, and language applicable to a range of subjects, including but not limited to ELA. The grades 6-12 standards are divided into two sections, one for ELA and the other for history/social studies, science, and technical subjects. This division reflects the unique, time-honored place of ELA teachers in developing students' literacy skills while at the same time recognizing that teachers in other areas must have a role in this development as well.

Part of the motivation behind the interdisciplinary approach to literacy promulgated by the Standards is extensive research establishing the need for college and career ready students to be proficient in reading complex informational text independently in a variety of content areas. Most of the required reading in college and workforce training programs is informational in structure and challenging in content; postsecondary education programs typically provide students with both a higher volume of such reading than is generally required in K-12 schools and comparatively little scaffolding.

The Standards are not alone in calling for a special emphasis on informational text. The 2009 reading framework of the National Assessment of Educational Progress (NAEP) requires a high and increasing proportion of informational text on its assessment as students advance through the grades.



#### Distribution of Literary and Informational Passages by Grade in the 2009 NAEP Reading Framework

Grade	Literary	Informational
4	50%	50%
8	45%	55%
12	30%	70%

Source: National Assessment Governing Board. (2008). Reading framework for the 2009 National Assessment of Educational Progress. Washington, DC: U.S. Government Printing Office.

The Standards aim to align instruction with this framework so that many more students than at present can meet the requirements of college and career readiness. In K-5, the Standards follow NAEP's lead in balancing the reading of literature with the reading of informational texts, including texts in history/ social studies, science, and technical subjects. In accord with NAEP's growing emphasis on informational texts in the higher grades, the Standards demand that a significant amount of reading of informational texts take place in and outside the ELA classroom. Fulfilling the Standards for 6-12 ELA requires much greater attention to a specific category of informational text—literary nonfiction—than has been traditional. Because the ELA classroom must focus on literature (stories, drama, and poetry) as well as literary nonfiction, a great deal of informational reading in grades 6-12 must take place in other classes if the NAEP assessment framework is to be matched instructionally.1 To measure students' growth toward college and career readiness, assessments aligned with the Standards should adhere to the distribution of texts across grades cited in the NAFP framework.

NAEP likewise outlines a distribution across the grades of the core purposes and types of student writing. The 2011 NAEP framework, like the Standards, cultivates the development of three mutually reinforcing writing capacities: writing to persuade, to explain, and to convey real or imagined experience. Evidence concerning the demands of college and career readiness gathered during development of the Standards concurs with NAEP's shifting emphases: standards for grades 9–12 describe writing in all three forms, but, consistent with NAEP, the overwhelming focus of writing throughout high school should be on arguments and informative/explanatory texts.<sup>2</sup>

## Distribution of Communicative Purposes by Grade in the 2011 NAEP Writing Framework

Grade	To Persuade	To Explain	To Convey Experience
4	30%	35%	35%
8	35%	35%	30%
12	40%	40%	20%

Source: National Assessment Governing Board. (2007). Writing framework for the 2011 National Assessment of Educational Progress, pre-publication edition. lowa City, IA: ACT, Inc.

It follows that writing assessments aligned with the Standards should adhere to the distribution of writing purposes across grades outlined by NAEP.

#### Focus and coherence in instruction and assessment

While the Standards delineate specific expectations in reading, writing, speaking, listening, and language, each standard need not be a separate focus for instruction and assessment. Often, several standards can be addressed by a single rich task. For example, when editing writing, students address Writing standard 5 ("Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach") as well as Language standards 1–3 (which deal with conventions of standard English and knowledge of language). When drawing evidence from literary and informational texts per Writing standard 9, students are also demonstrating their comprehension skill in relation to specific standards in Reading. When discussing something they have read or written, students are also demonstrating their speaking and listening skills. The CCR anchor standards themselves provide another source of focus and coherence.

The same ten CCR anchor standards for Reading apply to both literary and informational texts, including texts in history/social studies, science, and technical subjects. The ten CCR anchor standards for Writing cover numerous text types and subject areas. This means that students can develop mutually reinforcing skills and exhibit mastery of standards for reading and writing across a range of texts and classrooms.

The percentages on the table reflect the sum of student reading, not just reading in ELA settings. Teachers of senior English classes, for example, are not required to devote 70 percent of reading to informational texts. Rather, 70 percent of student reading across the grade should be informational.

 $<sup>^2</sup>$ As with reading, the percentages in the table reflect the sum of student writing, not just writing in ELA settings.



### What is Not Covered by the Standards

The Standards should be recognized for what they are not as well as what they are. The most important intentional design limitations are as follows:

- 1. The Standards define what all students are expected to know and be able to do, not how teachers should teach. For instance, the use of play with young children is not specified by the Standards, but it is welcome as a valuable activity in its own right and as a way to help students meet the expectations in this document. Furthermore, while the Standards make references to some particular forms of content, including mythology, foundational U.S. documents, and Shakespeare, they do not—indeed, cannot—enumerate all or even most of the content that students should learn. The Standards must therefore be complemented by a well-developed, content-rich curriculum consistent with the expectations laid out in this document.
- 2. While the Standards focus on what is most essential, they do not describe all that can or should be taught. A great deal is left to the discretion of teachers and curriculum developers. The aim of the Standards is to articulate the fundamentals, not to set out an exhaustive list or a set of restrictions that limits what can be taught beyond what is specified herein.
- 3. The Standards do not define the nature of advanced work for students who meet the Standards prior to the end of high school. For those students, advanced work in such areas as literature, composition, language, and journalism should be available. This work should provide the next logical step up from the college and career readiness baseline established here.
- 4. The Standards set grade-specific standards but do not define the intervention methods or materials necessary to support students who are well below or well above grade-level expectations. No set of grade-specific standards can fully reflect the great variety in abilities, needs, learning rates, and achievement levels of students in any given classroom. However, the Standards do provide clear signposts along the way to the goal of college and career readiness for all students.

5. It is also beyond the scope of the Standards to define the full range of supports appropriate for English language learners and for students with special needs. At the same time, all students must have the opportunity to learn and meet the same high standards if they are to access the knowledge and skills necessary in their post-high school lives.

Each grade will include students who are still acquiring English. For those students, it is possible to meet the standards in reading, writing, speaking, and listening without displaying native-like control of conventions and vocabulary.

- The Standards should also be read as allowing for the widest possible range of students to participate fully from the outset and as permitting appropriate accommodations to ensure maximum participation of students with special education needs. For example, for students with disabilities *reading* should allow for the use of Braille, screen-reader technology, or other assistive devices, while *writing* should include the use of a scribe, computer, or speech-to-text technology. In a similar vein, *speaking* and *listening* should be interpreted broadly to include sign language.
- 6. While the ELA and content area literacy components described herein are critical to college and career readiness, they do not define the whole of such readiness. Students require a wideranging, rigorous academic preparation and, particularly in the early grades, attention to such matters as social, emotional, and physical development and approaches to learning. Similarly, the Standards define literacy expectations in history/social studies, science, and technical subjects, but literacy standards in other areas, such as mathematics and health education, modeled on those in this document are strongly encouraged to facilitate a comprehensive, schoolwide literacy program.



# Students Who are College and Career Ready in Reading, Writing, Speaking, Listening, and Language

The descriptions that follow are not standards themselves but instead offer a portrait of students who meet the standards set out in this document. As students advance through the grades and master the standards in reading, writing, speaking, listening, and language, they are able to exhibit with increasing fullness and regularity these capacities of the literate individual.

#### They demonstrate independence.

Students can, without significant scaffolding, comprehend and evaluate complex texts across a range of types and disciplines, and they can construct effective arguments and convey intricate or multifaceted information. Likewise, students are able independently to discern a speaker's key points, request clarification, and ask relevant questions. They build on others' ideas, articulate their own ideas, and confirm they have been understood. Without prompting, they demonstrate command of standard English and acquire and use a wide-ranging vocabulary. More broadly, they become self-directed learners, effectively seeking out and using resources to assist them, including teachers, peers, and print and digital reference materials.

#### They build strong content knowledge.

Students establish a base of knowledge across a wide range of subject matter by engaging with works of quality and substance. They become proficient in new areas through research and study. They read purposefully and listen attentively to gain both general knowledge and discipline-specific expertise. They refine and share their knowledge through writing and speaking.

# They respond to the varying demands of audience, task, purpose, and discipline.

Students adapt their communication in relation to audience, task, purpose, and discipline. They set and adjust purpose for reading, writing, speaking, listening, and language use as warranted by the task. They appreciate nuances, such as how the composition of an audience should affect tone when speaking and how the connotations of words affect meaning. They also know that different disciplines call for different types of evidence (e.g., documentary evidence in history, experimental evidence in science).

#### They comprehend as well as critique.

Students are engaged and open-minded—but discerning—readers and listeners. They work diligently to understand precisely what an author or speaker is saying, but they also question an author's or speaker's assumptions and premises and assess the veracity of claims and the soundness of reasoning.

#### They value evidence.

Students cite specific evidence when offering an oral or written interpretation of a text. They use relevant evidence when supporting their own points in writing and speaking, making their reasoning clear to the reader or listener, and they constructively evaluate others' use of evidence.

#### They use technology and digital media strategically and capably.

Students employ technology thoughtfully to enhance their reading, writing, speaking, listening, and language use. They tailor their searches online to acquire useful information efficiently, and they integrate what they learn using technology with what they learn offline. They are familiar with the strengths and limitations of various technological tools and mediums and can select and use those best suited to their communication goals.

#### They come to understand other perspectives and cultures.

Students appreciate that the twenty-first-century classroom and workplace are settings in which people from often widely divergent cultures and who represent diverse experiences and perspectives must learn and work together. Students actively seek to understand other perspectives and cultures through reading and listening, and they are able to communicate effectively with people of varied backgrounds. They evaluate other points of view critically and constructively. Through reading great classic and contemporary works of literature representative of a variety of periods, cultures, and worldviews, students can vicariously inhabit worlds and have experiences much different than their own.



#### How to Read This Document

#### **Overall Document Organization**

The Standards comprise three main sections: a comprehensive K-5 section and two content area-specific sections for grades 6-12, one for ELA and one for history/social studies, science, and technical subjects. Three appendices accompany the main document.

Each section is divided into strands. K-5 and 6-12 ELA have Reading, Writing, Speaking and Listening, and Language strands; the 6-12 history/ social studies, science, and technical subjects section focuses on Reading and Writing. Each strand is headed by a strand-specific set of College and Career Readiness Anchor Standards that is identical across all grades and content areas.

Standards for each grade within K-8 and for grades 9-10 and 11-12 follow the CCR anchor standards in each strand. Each grade-specific standard (as these standards are collectively referred to) corresponds to the same-numbered CCR anchor standard. Put another way, each CCR anchor standard has an accompanying grade-specific standard translating the broader CCR statement into grade-appropriate end-of-year expectations.

Individual CCR anchor standards can be identified by their strand, CCR status, and number (R.CCR.6, for example). Individual grade-specific standards can be identified by their strand, grade, and number (or number and letter, where applicable), so that RI.4.3, for example, stands for Reading, Informational Text, grade 4, standard 3 and W.5.1a stands for Writing, grade 5, standard 1a. Strand designations can be found in brackets alongside the full strand title.

#### Who is responsible for which portion of the Standards

A single K-5 section lists standards for reading, writing, speaking, listening, and language across the curriculum, reflecting the fact that most or all of the instruction students in these grades receive comes from one teacher. Grades 6-12 are covered in two content area-specific sections, the first for the English language arts teacher and the second for teachers of history/social studies, science, and technical subjects. Each section uses the same CCR anchor standards but also includes grade-specific standards tuned to the literacy requirements of the particular discipline(s).

#### Key Features of the Standards

#### Reading: Text complexity and the growth of comprehension

The Reading standards place equal emphasis on the sophistication of what students read and the skill with which they read. Standard 10 defines a grade-bygrade "staircase" of increasing text complexity that rises from beginning reading

to the college and career readiness level. Whatever they are reading, students must also show a steadily growing ability to discern more from and make fuller use of text, including making an increasing number of connections among ideas and between texts, considering a wider range of textual evidence, and becoming more sensitive to inconsistencies, ambiguities, and poor reasoning in texts.

#### Writing: Text types, responding to reading, and research

The Standards acknowledge the fact that whereas some writing skills, such as the ability to plan, revise, edit, and publish, are applicable to many types of writing, other skills are more properly defined in terms of specific writing types: arguments, informative/explanatory texts, and narratives. Standard 9 stresses the importance of the writing-reading connection by requiring students to draw upon and write about evidence from literary and informational texts. Because of the centrality of writing to most forms of inquiry, research standards are prominently included in this strand, though skills important to research are infused throughout the document.

#### Speaking and Listening: Flexible communication and collaboration

Including but not limited to skills necessary for formal presentations, the Speaking and Listening standards require students to develop a range of broadly useful oral communication and interpersonal skills. Students must learn to work together, express and listen carefully to ideas, integrate information from oral, visual, quantitative, and media sources, evaluate what they hear, use media and visual displays strategically to help achieve communicative purposes, and adapt speech to context and task.

#### Language: Conventions, effective use, and vocabulary

The Language standards include the essential "rules" of standard written and spoken English, but they also approach language as a matter of craft and informed choice among alternatives. The vocabulary standards focus on understanding words and phrases, their relationships, and their nuances and on acquiring new vocabulary, particularly general academic and domain-specific words and phrases.





# Literacy in All Subjects

6-12



### College and Career Readiness Anchor Standards for Reading

The grades 6-12 standards on the following pages define what students should understand and be able to do by the end of each grade span. They correspond to the College and Career Readiness (CCR) anchor standards below by number. The CCR and grade-specific standards are necessary complements—the former providing broad standards, the latter providing additional specificity—that together define the skills and understandings that all students must demonstrate.

#### **Key Ideas and Details**

- 1. Read closely to determine what the text says explicitly and to make logical inferences from it; cite specific textual evidence when writing or speaking to support conclusions drawn from the text.
- 2. Determine central ideas or themes of a text and analyze their development; summarize the key supporting details and ideas.
- 3. Analyze how and why individuals, events, or ideas develop and interact over the course of a text.

#### Craft and Structure

- 4. Interpret words and phrases as they are used in a text, including determining technical, connotative, and figurative meanings, and analyze how specific word choices shape meaning or tone.
- 5. Analyze the structure of texts, including how specific sentences, paragraphs, and larger portions of the text (e.g., a section, chapter, scene, or stanza) relate to each other and the whole.
- 6. Assess how point of view or purpose shapes the content and style of a text.

#### Integration of Knowledge and Ideas

- 7. Integrate and evaluate content presented in diverse formats and media, including visually and quantitatively, as well as in words.\*
- 8. Delineate and evaluate the argument and specific claims in a text, including the validity of the reasoning as well as the relevance and sufficiency of the evidence.
- 9. Analyze how two or more texts address similar themes or topics in order to build knowledge or to compare the approaches the authors take.

#### Range of Reading and Level of Text Complexity

10. Read and comprehend complex literary and informational texts independently and proficiently.

Please see "Research to Build and Present Knowledge" in Writing for additional standards relevant to gathering, assessing, and applying information from print and digital sources.

# Note on range and content of student reading

Reading is critical to building knowledge in history/social studies as well as in science and technical subjects. College and career ready reading in these fields requires an appreciation of the norms and conventions of each discipline, such as the kinds of evidence used in history and science: an understanding of domain-specific words and phrases; an attention to precise details; and the capacity to evaluate intricate arguments, synthesize complex information, and follow detailed descriptions of events and concepts. In history/social studies, for example. students need to be able to analyze, evaluate, and differentiate primary and secondary sources. When reading scientific and technical texts, students need to be able to gain knowledge from challenging texts that often make extensive use of elaborate diagrams and data to convey information and illustrate concepts. Students must be able to read complex informational texts in these fields with independence and confidence because the vast majority of reading in college and workforce training programs will be sophisticated nonfiction. It is important to note that these Reading standards are meant to complement the specific content demands of the disciplines, not replace them.



# Reading Standards for Literacy in All Subjects



The standards below begin at grade 6; standards for K-5 reading in history/social studies, science, and technical subjects are integrated into the K-5 Reading standards. The CCR anchor standards and high school standards in literacy work in tandem to define college and career readiness expectations—the former providing broad standards, the latter providing additional specificity.

	Grades 6-8 students:		Grades 9-10 students:		Grades 11-12 students:
Ke	y Ideas and Details				
1.	Cite specific textual evidence to support analysis of primary and secondary sources.	1.	Cite specific textual evidence to support analysis of primary and secondary sources, attending to such features as the date and origin of the information.	1.	Cite specific textual evidence to support analysis of primary and secondary sources, connecting insights gained from specific details to an understanding of the text as a whole.
2.	Determine the central ideas or information of a primary or secondary source; provide an accurate summary of the source distinct from prior knowledge or opinions.	2.	Determine the central ideas or information of a primary or secondary source; provide an accurate summary of how key events or ideas develop over the course of the text.	2.	Determine the central ideas or information of a primary or secondary source; provide an accurate summary that makes clear the relationships among the key details and ideas.
3.	Identify key steps in a text's description of a process related to history/social studies (e.g., how a bill becomes law, how interest rates are raised or lowered).	3.	Analyze in detail a series of events described in a text; determine whether earlier events caused later ones or simply preceded them.	3.	Evaluate various explanations for actions or events and determine which explanation best accords with textual evidence, acknowledging where the text leaves matters uncertain.
Cra	aft and Structure				
4.	Determine the meaning of words and phrases as they are used in a text, including vocabulary specific to domains related to history/social studies.	4.	Determine the meaning of words and phrases as they are used in a text, including vocabulary describing political, social, or economic aspects of history/social studies.	4.	Determine the meaning of words and phrases as they are used in a text, including analyzing how an author uses and refines the meaning of a key term over the course of a text (e.g., how Madison define faction in Federalist No. 10).
5.	Describe how a text presents information (e.g., sequentially, comparatively, causally).	5.	Analyze how a text uses structure to emphasize key points or advance an explanation or analysis.	5.	Analyze in detail how a complex primary source is structured, including how key sentences, paragraphs, and larger portions of the text contribute to the whole.
6.	Identify aspects of a text that reveal an author's point of view or purpose (e.g., loaded language, inclusion or avoidance of particular facts).	6.	Compare the point of view of two or more authors for how they treat the same or similar topics, including which details they include and emphasize in their respective accounts.	6.	Evaluate authors' differing points of view on the same historical event or issue by assessing the authors' claims, reasoning, and evidence.
Int	egration of Knowledge and Ideas				
7.	Integrate visual information (e.g., in charts, graphs, photographs, videos, or maps) with other information in print and digital texts.	7.	Integrate quantitative or technical analysis (e.g., charts, research data) with qualitative analysis in print or digital text.	7.	Integrate and evaluate multiple sources of information presented in diverse formats and medice.g., visually, quantitatively, as well as in words) in order to address a question or solve a problem.
8.	Distinguish among fact, opinion, and reasoned judgment in a text.	8.	Assess the extent to which the reasoning and evidence in a text support the author's claims.	8.	Evaluate an author's premises, claims, and evidence by corroborating or challenging them with other information.
9.	Analyze the relationship between a primary and secondary source on the same topic.	9.	Compare and contrast treatments of the same topic in several primary and secondary sources.	9.	Integrate information from diverse sources, both primary and secondary, into a coherent understanding of an idea or event, noting discrepancies among sources.
Ra	nge of Reading and Level of Text Complexit	У			
10.	By the end of grade 8, read and comprehend history/social studies texts in the grades 6-8 text complexity band independently and proficiently.	10.	By the end of grade 10, read and comprehend history/social studies texts in the grades 9-10 text complexity band independently and proficiently.	10.	By the end of grade 12, read and comprehend history/social studies texts in the grades 11-CCR tex complexity band independently and proficiently.



## Reading Standards for Literacy in All Subjects

RST

	Grades 6-8 students:		Grades 9-10 students:		Grades 11-12 students:
Ke	y Ideas and Details				
1.	Cite specific textual evidence to support analysis of science and technical texts.	1.	Cite specific textual evidence to support analysis of science and technical texts, attending to the precise details of explanations or descriptions.	1.	Cite specific textual evidence to support analysis o science and technical texts, attending to important distinctions the author makes and to any gaps or inconsistencies in the account.
2.	Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.	2.	Determine the central ideas or conclusions of a text; trace the text's explanation or depiction of a complex process, phenomenon, or concept; provide an accurate summary of the text.	2.	Determine the central ideas or conclusions of a text; summarize complex concepts, processes, or information presented in a text by paraphrasing them in simpler but still accurate terms.
3.	Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.	3.	Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks, attending to special cases or exceptions defined in the text.	3.	Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text.
Cra	aft and Structure				
4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to <i>grades 6-8 texts and topics</i> .	4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to <i>grades 9-10 texts and topics</i> .	4.	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to <i>grades 11–12 texts and topics</i> .
5.	Analyze the structure an author uses to organize a text, including how the major sections contribute to the whole and to an understanding of the topic.	5.	Analyze the structure of the relationships among concepts in a text, including relationships among key terms (e.g., force, friction, reaction force, energy).	5.	Analyze how the text structures information or ideas into categories or hierarchies, demonstrating understanding of the information or ideas.
6.	Analyze the author's purpose in providing an explanation, describing a procedure, or discussing an experiment in a text.	6.	Analyze the author's purpose in providing an explanation, describing a procedure, or discussing an experiment in a text, defining the question the author seeks to address.	6.	Analyze the author's purpose in providing an explanation, describing a procedure, or discussing an experiment in a text, identifying important issues that remain unresolved.
Int	egration of Knowledge and Ideas				
7.	Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table).	7.	Translate quantitative or technical information expressed in words in a text into visual form (e.g., a table or chart) and translate information expressed visually or mathematically (e.g., in an equation) into words.	7.	Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem.
8.	Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.	8.	Assess the extent to which the reasoning and evidence in a text support the author's claim or a recommendation for solving a scientific or technical problem.	8.	Evaluate the hypotheses, data, analysis, and conclusions in a science or technical text, verifying the data when possible and corroborating or challenging conclusions with other sources of information.
9.	Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.	9.	Compare and contrast findings presented in a text to those from other sources (including their own experiments), noting when the findings support or contradict previous explanations or accounts.	9.	Synthesize information from a range of sources (e.g., texts, experiments, simulations) into a coherent understanding of a process, phenomenor or concept, resolving conflicting information when possible.
Ra	nge of Reading and Level of Text Complexi	ty			
10.	By the end of grade 8, read and comprehend science/technical texts in the grades 6-8 text complexity band independently and proficiently.	10.	By the end of grade 10, read and comprehend science/technical texts in the grades 9-10 text complexity band independently and proficiently.	10.	By the end of grade 12, read and comprehend science/technical texts in the grades 11-CCR text complexity band independently and proficiently.



### College and Career Readiness Anchor Standards for Writing

The grades 6-12 standards on the following pages define what students should understand and be able to do by the end of each grade span. They correspond to the College and Career Readiness (CCR) anchor standards below by number. The CCR and grade-specific standards are necessary complements—the former providing broad standards, the latter providing additional specificity—that together define the skills and understandings that all students must demonstrate.

#### **Text Types and Purposes\***

- 1. Write arguments to support claims in an analysis of substantive topics or texts using valid reasoning and relevant and sufficient evidence.
- 2. Write informative/explanatory texts to examine and convey complex ideas and information clearly and accurately through the effective selection, organization, and analysis of content.
- 3. Write narratives to develop real or imagined experiences or events using effective technique, well-chosen details and well-structured event sequences.

#### **Production and Distribution of Writing**

- 4. Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.
- 5. Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach.
- 6. Use technology, including the Internet, to produce and publish writing and to interact and collaborate with others.

#### Research to Build and Present Knowledge

- 7. Conduct short as well as more sustained research projects based on focused questions, demonstrating understanding of the subject under investigation.
- 8. Gather relevant information from multiple print and digital sources, assess the credibility and accuracy of each source, and integrate the information while avoiding plagiarism.
- 9. Draw evidence from literary or informational texts to support analysis, reflection, and research.

#### Range of Writing

10. Write routinely over extended time frames (time for research, reflection, and revision) and shorter time frames (a single sitting or a day or two) for a range of tasks, purposes, and audiences.

# Note on range and content of student writing

For students, writing is a key means of asserting and defending claims, showing what they know about a subject, and conveying what they have experienced, imagined, thought, and felt. To be college and career ready writers, students must take task, purpose, and audience into careful consideration, choosing words. information, structures, and formats deliberately. They need to be able to use technology strategically when creating, refining, and collaborating on writing. They have to become adept at gathering information, evaluating sources, and citing material accurately, reporting findings from their research and analysis of sources in a clear and cogent manner. They must have the flexibility, concentration, and fluency to produce high-quality firstdraft text under a tight deadline and the capacity to revisit and make improvements to a piece of writing over multiple drafts when circumstances encourage or require it. To meet these goals, students must devote significant time and effort to writing, producing numerous pieces over short and long time frames throughout the year.

<sup>\*</sup>These broad types of writing include many subgenres.





### Writing Standards for Literacy in All Subjects



The standards below begin at grade 6; standards for K-5 writing in history/social studies, science, and technical subjects are integrated into the K-5 Writing standards. The CCR anchor standards and high school standards in literacy work in tandem to define college and career readiness expectations—the former providing broad standards, the latter providing additional specificity.

## Grades 6-8 students: Grades 9-10 students: Grades 11-12 students:

#### **Text Types and Purposes**

- Write arguments focused on discipline-specific content
  - a. Introduce claim(s) about a topic or issue, acknowledge and distinguish the claim(s) from alternate or opposing claims, and organize the reasons and evidence logically.
  - Support claim(s) with logical reasoning and relevant, accurate data and evidence that demonstrate an understanding of the topic or text, using credible sources.
  - Use words, phrases, and clauses to create cohesion and clarify the relationships among claim(s), counterclaims, reasons, and evidence.
  - d. Establish and maintain a formal style.
  - e. Provide a concluding statement or section that follows from and supports the argument presented.

- Write arguments focused on discipline-specific content
  - a. Introduce precise claim(s), distinguish the claim(s) from alternate or opposing claims, and create an organization that establishes clear relationships among the claim(s), counterclaims, reasons, and evidence.
  - b. Develop claim(s) and counterclaims fairly, supplying data and evidence for each while pointing out the strengths and limitations of both claim(s) and counterclaims in a discipline-appropriate form and in a manner that anticipates the audience's knowledge level and concerns.
  - c. Use words, phrases, and clauses to link the major sections of the text, create cohesion, and clarify the relationships between claim(s) and reasons, between reasons and evidence, and between claim(s) and counterclaims.
  - d. Establish and maintain a formal style and objective tone while attending to the norms and conventions of the discipline in which they are writing.
  - e. Provide a concluding statement or section that follows from or supports the argument presented.

- Write arguments focused on discipline-specific content.
  - Introduce precise, knowledgeable claim(s), establish the significance of the claim(s), distinguish the claim(s) from alternate or opposing claims, and create an organization that logically sequences the claim(s), counterclaims, reasons, and evidence.
  - b. Develop claim(s) and counterclaims fairly and thoroughly, supplying the most relevant data and evidence for each while pointing out the strengths and limitations of both claim(s) and counterclaims in a discipline-appropriate form that anticipates the audience's knowledge level, concerns, values, and possible biases.
  - c. Use words, phrases, and clauses as well as varied syntax to link the major sections of the text, create cohesion, and clarify the relationships between claim(s) and reasons, between reasons and evidence, and between claim(s) and counterclaims.
  - d. Establish and maintain a formal style and objective tone while attending to the norms and conventions of the discipline in which they are writing.
  - e. Provide a concluding statement or section that follows from or supports the argument presented.



### Writing Standards for Literacy in All Subjects



#### **Grades 6-8 students: Grades 9-10 students: Grades 11-12 students:** Text Types and Purposes (continued) 2. Write informative/explanatory texts, including 2. Write informative/explanatory texts, including Write informative/explanatory texts, including the narration of historical events, scientific the narration of historical events, scientific the narration of historical events, scientific procedures/ experiments, or technical processes. procedures/ experiments, or technical processes. procedures/ experiments, or technical processes. a. Introduce a topic clearly, previewing what a. Introduce a topic and organize ideas, a. Introduce a topic and organize complex ideas, is to follow; organize ideas, concepts, and concepts, and information to make important concepts, and information so that each new information into broader categories as connections and distinctions; include element builds on that which precedes it to appropriate to achieving purpose; include formatting (e.g., headings), graphics (e.g., create a unified whole; include formatting formatting (e.g., headings), graphics (e.g., figures, tables), and multimedia when useful to (e.g., headings), graphics (e.g., figures, charts, tables), and multimedia when useful to aiding comprehension. tables), and multimedia when useful to aiding aiding comprehension. comprehension. b. Develop the topic with well-chosen, relevant, b. Develop the topic with relevant, well-chosen and sufficient facts, extended definitions. b. Develop the topic thoroughly by selecting the facts, definitions, concrete details, quotations, concrete details, quotations, or other most significant and relevant facts, extended or other information and examples. information and examples appropriate to the definitions, concrete details, quotations, or audience's knowledge of the topic. other information and examples appropriate to c. Use appropriate and varied transitions to the audience's knowledge of the topic. create cohesion and clarify the relationships c. Use varied transitions and sentence structures among ideas and concepts. to link the major sections of the text, create c. Use varied transitions and sentence structures cohesion, and clarify the relationships among to link the major sections of the text, create d. Use precise language and domain-specific cohesion, and clarify the relationships among ideas and concepts. vocabulary to inform about or explain the complex ideas and concepts. d. Use precise language and domain-specific topic. d. Use precise language, domain-specific vocabulary to manage the complexity of e. Establish and maintain a formal style and the topic and convey a style appropriate to vocabulary and techniques such as metaphor, objective tone. the discipline and context as well as to the simile, and analogy to manage the complexity f. Provide a concluding statement or section that expertise of likely readers. of the topic; convey a knowledgeable stance follows from and supports the information or in a style that responds to the discipline and e. Establish and maintain a formal style and explanation presented. context as well as to the expertise of likely objective tone while attending to the norms and conventions of the discipline in which they are writing. e. Provide a concluding statement or section that follows from and supports the information f. Provide a concluding statement or section or explanation provided (e.g., articulating that follows from and supports the information implications or the significance of the topic). or explanation presented (e.g., articulating implications or the significance of the topic).

requirement)

3. (See note: not applicable as a separate

(See note; not applicable as a separate requirement)

(See note; not applicable as a separate requirement)

Students' narrative skills continue to grow in these grades. The Standards require that students be able to incorporate narrative elements effectively into arguments and informative/explanatory texts. In history/social studies, students must be able to incorporate narrative accounts into their analyses of individuals or events of historical import. In science and technical subjects, students must be able to write precise enough descriptions of the step-by-step procedures they use in their investigations or technical work that others can replicate them and (possibly) reach the same results.



## Writing Standards for Literacy in All Subjects



	Grades 6-8 students:		Grades 9-10 students:		Grades 11-12 students:
Pro	oduction and Distribution of Writing				
4.	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	4.	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	4.	Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.
5.	With some guidance and support from peers and adults, develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on how well purpose and audience have been addressed.	5.	Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience.	5.	Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience.
6.	Use technology, including the Internet, to produce and publish writing and present the relationships between information and ideas clearly and efficiently.	6.	Use technology, including the Internet, to produce, publish, and update individual or shared writing products, taking advantage of technology's capacity to link to other information and to display information flexibly and dynamically.	6.	Use technology, including the Internet, to produce, publish, and update individual or shared writing products in response to ongoing feedback, including new arguments or information.
Re	search to Build and Present Knowledge				
7.	Conduct short research projects to answer a question (including a self-generated question), drawing on several sources and generating additional related, focused questions that allow for multiple avenues of exploration.	7.	Conduct short as well as more sustained research projects to answer a question (including a self-generated question) or solve a problem; narrow or broaden the inquiry when appropriate; synthesize multiple sources on the subject, demonstrating understanding of the subject under investigation.	7.	Conduct short as well as more sustained research projects to answer a question (including a self-generated question) or solve a problem; narrow or broaden the inquiry when appropriate; synthesize multiple sources on the subject, demonstrating understanding of the subject under investigation.
8.	Gather relevant information from multiple print and digital sources, using search terms effectively; assess the credibility and accuracy of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and following a standard format for citation.	8.	Gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the usefulness of each source in answering the research question; integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and following a standard format for citation.	8.	Gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the strengths and limitations of each source in terms of the specific task, purpose, and audience; integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and overreliance on any one source and following a standard format for citation.
9.	Draw evidence from informational texts to support analysis reflection, and research.	9.	Draw evidence from informational texts to support analysis, reflection, and research.	9.	Draw evidence from informational texts to support analysis, reflection, and research.
Ra	nge of Writing				
10.	Write routinely over extended time frames (time for reflection and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences.	10.	Write routinely over extended time frames (time for reflection and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences.	10.	Write routinely over extended time frames (time for reflection and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences.



# College and Career Readiness Anchor Standards for Speaking and Listening

The grades 6-12 standards on the following pages define what students should understand and be able to do by the end of each grade. They correspond to the College and Career Readiness (CCR) anchor standards below by number. The CCR and grade-specific standards are necessary complements—the former providing broad standards, the latter providing additional specificity—that together define the skills and understandings that all students must demonstrate.

#### Comprehension and Collaboration

- 1. Prepare for and participate effectively in a range of conversations and collaborations with diverse partners, building on others' ideas and expressing their own clearly and persuasively.
- 2. Integrate and evaluate information presented in diverse media and formats, including visually, quantitatively, and orally.
- 3. Evaluate a speaker's point of view, reasoning, and use of evidence and rhetoric.

#### Presentation of Knowledge and Ideas

- 4. Present information, findings, and supporting evidence such that listeners can follow the line of reasoning and the organization, development, and style are appropriate to task, purpose, and audience.
- 5. Make strategic use of digital media and visual displays of data to express information and enhance understanding of presentations.
- 6. Adapt speech to a variety of contexts and communicative tasks, demonstrating command of formal English when indicated or appropriate.

# Note on range and content of student speaking and listening

To become college and career ready, students must have ample opportunities to take part in a variety of rich. structured conversations—as part of a whole class, in small groups. and with a partner—built around important content in various domains. They must be able to contribute appropriately to these conversations. to make comparisons and contrasts, and to analyze and synthesize a multitude of ideas in accordance with the standards of evidence appropriate to a particular discipline. Whatever their intended major or profession, high school graduates will depend heavily on their ability to listen attentively to others so that they are able to build on others' meritorious ideas while expressing their own clearly and persuasively.

New technologies have broadened and expanded the role that speaking and listening play in acquiring and sharing knowledge and have tightened their link to other forms of communication. The Internet has accelerated the speed at which connections between speaking, listening, reading, and writing can be made, requiring that students be ready to use these modalities nearly simultaneously. Technology itself is changing quickly, creating a new urgency for students to be adaptable in response to change.



## Speaking and Listening Standards for Literacy in All Subjects

SL

The following standards for grades 6-12 offer a focus for instruction in each year to help ensure that students gain adequate mastery of a range of skills and applications. Students advancing through the grades are expected to meet each year's grade-specific standards and retain or further develop skills and understandings mastered in preceding grades.

	Grade 6 students:		Grade 7 students:	Grade 8 students:				
Co	mprehension and Collaboration							
1.	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacherled) with diverse partners on <i>grade 6 topics, texts, and issues</i> , building on others' ideas and expressing their own clearly.	1.	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacherled) with diverse partners on <i>grade 7 topics</i> , <i>texts</i> , <i>and issues</i> , building on others' ideas and expressing their own clearly.	1.	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacherled) with diverse partners on <i>grade 8 topics, texts, and issues,</i> building on others' ideas and expressing their own clearly.			
	<ul> <li>Come to discussions prepared, having read or studied required material; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.</li> </ul>		<ul> <li>Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.</li> </ul>		<ul> <li>Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.</li> </ul>			
	<ul> <li>Follow rules for collegial discussions, set specific goals and deadlines, and define individual roles as needed.</li> </ul>		<ul> <li>Follow rules for collegial discussions, track progress toward specific goals and deadlines, and define individual roles as needed.</li> </ul>		<ul> <li>Follow rules for collegial discussions and decision-making, track progress toward specific goals and deadlines, and define</li> </ul>			
	<ul> <li>Pose and respond to specific questions with elaboration and detail by making comments that contribute to the topic, text, or issue under discussion.</li> </ul>		c. Pose questions that elicit elaboration and respond to others' questions and comments with relevant observations and ideas that bring the discussion back on topic as needed.		individual roles as needed.  c. Pose questions that connect the ideas of several speakers and respond to others' questions and comments with relevant			
	<ul> <li>Review the key ideas expressed and demonstrate understanding of multiple perspectives through reflection and paraphrasing.</li> </ul>		<ul> <li>Acknowledge new information expressed by others and, when warranted, modify their own views.</li> </ul>		<ul> <li>evidence, observations, and ideas.</li> <li>d. Acknowledge new information expressed by others, and, when warranted, qualify or justify their own views in light of the evidence presented.</li> </ul>			
2.	Interpret information presented in diverse media and formats (e.g., visually, quantitatively, orally) and explain how it contributes to a topic, text, or issue under study.	2.	Analyze the main ideas and supporting details presented in diverse media and formats (e.g., visually, quantitatively, orally) and explain how the ideas clarify a topic, text, or issue under study.	2.	Analyze the purpose of information presented in diverse media and formats (e.g., visually, quantitatively, orally) and evaluate the motives (e.g., social, commercial, political) behind its presentation.			
3.	Delineate a speaker's argument and specific claims, distinguishing claims that are supported by reasons and evidence from claims that are not.	3.	Delineate a speaker's argument and specific claims, evaluating the soundness of the reasoning and the relevance and sufficiency of the evidence.	3.	Delineate a speaker's argument and specific claims, evaluating the soundness of the reasoning and relevance and sufficiency of the evidence and identifying when irrelevant evidence is introduced.			
Pre	esentation of Knowledge and Ideas							
4.	Present claims and findings, sequencing ideas logically and using pertinent descriptions, facts, and details to accentuate main ideas or themes; use appropriate eye contact, adequate volume, and clear pronunciation.	4.	Present claims and findings, emphasizing salient points in a focused, coherent manner with pertinent descriptions, facts, details, and examples; use appropriate eye contact, adequate volume, and clear pronunciation.	4.	Present claims and findings, emphasizing salient points in a focused, coherent manner with relevant evidence, sound valid reasoning, and well-chosen details; use appropriate eye contact, adequate volume, and clear pronunciation.			
5.	Include multimedia components (e.g., graphics, images, music, sound) and visual displays in presentations to clarify information.	5.	Include multimedia components and visual displays in presentations to clarify claims and findings and emphasize salient points.	5.	Integrate multimedia and visual displays into presentations to clarify information, strengthen claims and evidence, and add interest.			
6.	Adapt speech to a variety of contexts and tasks, demonstrating command of formal English when indicated or appropriate.	6.	Adapt speech to a variety of contexts and tasks, demonstrating command of formal English when indicated or appropriate.	6.	Adapt speech to a variety of contexts and tasks, demonstrating command of formal English when indicated or appropriate			



## Speaking and Listening Standards for Literacy in All Subjects

SL

The CCR anchor standards and high school grade-specific standards work in tandem to define college and career readiness expectations—the former providing broad standards, the latter providing additional specificity.

	Grades 9-10 students:	Grades 11-12 students:							
Co	mprehension and Collaboration								
1.	Initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on <i>grades 9-10 topics, texts, and issues,</i> building on others' ideas and expressing their own clearly and persuasively.	1.	Initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on <i>grades 11-12 topics</i> , <i>texts</i> , <i>and issues</i> , building on others' ideas and expressing their own clearly and persuasively.						
	a. Come to discussions prepared, having read and researched material under study; explicitly draw on that preparation by referring to evidence from texts and other research on the topic or issue to stimulate a thoughtful, well-reasoned exchange of ideas.		a. Come to discussions prepared, having read and researched material under study; explicitly draw on that preparation by referring to evidence from texts and other research on the topic or issue to stimulate a thoughtful, well- reasoned exchange of ideas.						
	<ul> <li>Work with peers to set rules for collegial discussions and decision-making (e.g., informal consensus, taking votes on key issues, presentation of alternate views), clear goals and deadlines, and individual roles as needed.</li> </ul>		<ul> <li>Work with peers to promote civil, democratic discussions and decision- making, set clear goals and deadlines, and establish individual roles as needed.</li> </ul>						
	c. Propel conversations by posing and responding to questions that relate the current discussion to broader themes or larger ideas; actively incorporate others into the discussion; and clarify, verify, or challenge ideas and conclusions.		c. Propel conversations by posing and responding to questions that probe reasoning and evidence; ensure a hearing for a full range of positions on a topic or issue; clarify, verify, or challenge ideas and conclusions; and promote divergent and creative perspectives.						
	d. Respond thoughtfully to diverse perspectives, summarize points of agreement and disagreement, and, when warranted, qualify or justify their own views and understanding and make new connections in light of the evidence and reasoning presented.		d. Respond thoughtfully to diverse perspectives; synthesize comments, claims, and evidence made on all sides of an issue; resolve contradictions when possible; and determine what additional information or research is required to deepen the investigation or complete the task.						
2.	Integrate multiple sources of information presented in diverse media or formats (e.g., visually, quantitatively, orally) evaluating the credibility and accuracy of each source.	2.	Integrate multiple sources of information presented in diverse formats and media (e.g., visually, quantitatively, orally) in order to make informed decisions and solve problems, evaluating the credibility and accuracy of each source and noting any discrepancies among the data.						
3.	Evaluate a speaker's point of view, reasoning, and use of evidence and rhetoric, identifying any fallacious reasoning or exaggerated or distorted evidence.	3.	Evaluate a speaker's point of view, reasoning, and use of evidence and rhetoric, assessing the stance, premises, links among ideas, word choice, points of emphasis, and tone used.						
Pre	esentation of Knowledge and Ideas								
4.	Present information, findings, and supporting evidence clearly, concisely, and logically such that listeners can follow the line of reasoning and the organization, development, substance, and style are appropriate to purpose, audience, and task.	4.	Present information, findings, and supporting evidence, conveying a clear and distinct perspective, such that listeners can follow the line of reasoning, alternative or opposing perspectives are addressed, and the organization, development, substance, and style are appropriate to purpose, audience, and a range of formal and informal tasks.						
5.	Make strategic use of digital media (e.g., textual, graphical, audio, visual, and interactive elements) in presentations to enhance understanding of findings, reasoning, and evidence and to add interest.	5.	Make strategic use of digital media (e.g., textual, graphical, audio, visual, and interactive elements) in presentations to enhance understanding of findings, reasoning, and evidence and to add interest.						
6.	Adapt speech to a variety of contexts and tasks, demonstrating command of formal English when indicated or appropriate.	6.	Adapt speech to a variety of contexts and tasks, demonstrating a command of formal English when indicated or appropriate.						





### College and Career Readiness Anchor Standards for Language

The grades 6-12 standards on the following pages define what students should understand and be able to do by the end of each grade. They correspond to the College and Career Readiness (CCR) anchor standards below by number. The CCR and grade-specific standards are necessary complements—the former providing broad standards, the latter providing additional specificity—that together define the skills and understandings that all students must demonstrate.

#### **Conventions of Standard English**

- 1. Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.
- 2. Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.

#### **Knowledge of Language**

3. Apply knowledge of language to understand how language functions in different contexts, to make effective choices for meaning or style, and to comprehend more fully when reading or listening.

#### Vocabulary Acquisition and Use

- 4. Determine or clarify the meaning of unknown and multiple-meaning words and phrases by using context clues, analyzing meaningful word parts, and consulting general and specialized reference materials, as appropriate.
- 5. Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.
- 6. Acquire and use accurately a range of general academic and domain-specific words and phrases sufficient for reading, writing, speaking, and listening at the college and career readiness level; demonstrate independence in gathering vocabulary knowledge when considering a word or phrase important to comprehension or expression.

# Note on range and content of student language use

To be college and career ready in language, students must have firm control over the conventions of standard English. At the same time, they must come to appreciate that language is as at least as much a matter of craft as of rules and be able to choose words, syntax, and punctuation to express themselves and achieve particular functions and rhetorical effects. They must also have extensive vocabularies, built through reading and study, enabling them to comprehend complex texts and engage in purposeful writing about and conversations around content. They need to become skilled in determining or clarifying the meaning of words and phrases they encounter, choosing flexibly from an array of strategies to aid them. They must learn to see an individual word as part of a network of other words—words, for example, that have similar denotations but different connotations. The inclusion of Language standards in their own strand should not be taken as an indication that skills related to conventions, effective language use, and vocabulary are unimportant to reading, writing, speaking, and listening: indeed, they are inseparable from such contexts.



### Language Standards for Literacy in All Subjects



The following standards for grades 6-12 offer a focus for instruction each year to help ensure that students gain adequate mastery of a range of skills and applications. Students advancing through the grades are expected to meet each year's grade-specific standards and retain or further develop skills and understandings mastered in preceding grades. Beginning in grade 3, skills and understandings that are particularly likely to require continued attention in higher grades as they are applied to increasingly sophisticated writing and speaking are marked with an asterisk (\*).

	Grade 6 students:		Grade 7 students:		Grade 8 students:
C	onventions of Standard English				
1.	Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.  a. Ensure that pronouns are in the proper case (subjective, objective, possessive).  b. Use intensive pronouns (e.g., myself, ourselves).  c. Recognize and correct inappropriate shifts in pronoun number and person.*  d. Recognize and correct vague pronouns (i.e., ones with unclear or ambiguous antecedents).*  e. Recognize variations from standard English in their own and others' writing and speaking, and identify and use strategies to improve expression in conventional language.*	1.	<ul> <li>Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.</li> <li>a. Explain the function of phrases and clauses in general and their function in specific sentences.</li> <li>b. Choose among simple, compound, complex, and compound-complex sentences to signal differing relationships among ideas.</li> <li>c. Place phrases and clauses within a sentence, recognizing and correcting misplaced and dangling modifiers.*</li> </ul>	1.	Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.  a. Explain the function of verbals (gerunds, participles, infinitives) in general and their function in particular sentences.  b. Form and use verbs in the active and passive voice.  c. Form and use verbs in the indicative, imperative, interrogative, conditional, and subjunctive mood.  d. Recognize and correct inappropriate shifts in verb voice and mood.*
2.	Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.  a. Use punctuation (commas, parentheses, dashes) to set off nonrestrictive/parenthetical elements.*  b. Spell correctly.	2.	Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.  a. Use a comma to separate coordinate adjectives (e.g., It was a fascinating, enjoyable movie but not He wore an old[,] green shirt).  b. Spell correctly.	2.	<ul> <li>Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.</li> <li>a. Use punctuation (comma, ellipsis, dash) to indicate a pause or break.</li> <li>b. Use an ellipsis to indicate an omission.</li> <li>c. Spell correctly.</li> </ul>
Kı	nowledge of Language				
3.	Use knowledge of language and its conventions when writing, speaking, reading, or listening.  a. Vary sentence patterns for meaning, reader/listener interest, and style.*  b. Maintain consistency in style and tone.*	3.	Use knowledge of language and its conventions when writing, speaking, reading, or listening.  a. Choose language that expresses ideas precisely and concisely, recognizing and eliminating wordiness and redundancy.*	3.	Use knowledge of language and its conventions when writing, speaking, reading, or listening.  a. Use verbs in the active and passive voice and in the conditional and subjunctive mood to achieve particular effects (e.g., emphasizing the actor or the action; expressing uncertainty or describing a state contrary to fact).



# Language Standards for Literacy in All Subjects

	Grade 6 students:	Grade 7 students:			Grade 8 students:			
Vo	cabulary Acquisition and Use							
4.	Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 6 reading and content, choosing flexibly from a range of strategies.  a. Use context (e.g., the overall meaning of a	4.	Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 7 reading and content, choosing flexibly from a range of strategies.  a. Use context (e.g., the overall meaning of a	4.	Determine or clarify the meaning of unknown and multiple-meaning words or phrases based on <i>grade 8 reading and content</i> , choosing flexibly from a range of strategies.  a. Use context (e.g., the overall meaning of a			
	sentence or paragraph; a word's position or function in a sentence) as a clue to the meaning of a word or phrase.		sentence or paragraph; a word's position or function in a sentence) as a clue to the meaning of a word or phrase.		sentence or paragraph; a word's position or function in a sentence) as a clue to the meaning of a word or phrase.			
	<ul> <li>Use common, grade-appropriate Greek or Latin affixes and roots as clues to the meaning of a word (e.g., audience, auditory, audible).</li> </ul>		<ul> <li>Use common, grade-appropriate Greek or Latin affixes and roots as clues to the meaning of a word (e.g., belligerent, bellicose, rebel).</li> </ul>		<ul> <li>Use common, grade-appropriate Greek or Latin affixes and roots as clues to the meaning of a word (e.g., precede, recede, secede).</li> </ul>			
	c. Consult reference materials (e.g., dictionaries, glossaries, thesauruses), both print and digital, to find the pronunciation of a word or determine or clarify its precise meaning or its part of speech.		c. Consult general and specialized reference materials (e.g., dictionaries, glossaries, thesauruses), both print and digital, to find the pronunciation of a word or determine or clarify its precise meaning or its part of		c. Consult general and specialized reference materials (e.g., dictionaries, glossaries, thesauruses), both print and digital, to find the pronunciation of a word or determine or clarify its precise meaning or its part of speech.			
	d. Verify the preliminary determination of the meaning of a word or phrase (e.g., by checking the inferred meaning in context or in a dictionary).		speech.  d. Verify the preliminary determination of the meaning of a word or phrase (e.g., by checking the inferred meaning in context or in a dictionary).		d. Verify the preliminary determination of the meaning of a word or phrase (e.g., by checking the inferred meaning in context or in a dictionary).			
5.	Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.	5.	Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.	5.	Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.  a. Interpret figures of speech (e.g. verbal irony,			
	<ul> <li>a. Interpret figures of speech (e.g., personification) in context.</li> </ul>		a. Interpret figures of speech (e.g., literary, biblical, and mythological allusions) in context.		puns) in context.  b. Use the relationship between particular words			
	<ul> <li>Use the relationship between particular words (e.g., cause/effect, part/whole, item/category) to better understand each of the words.</li> </ul>		<ul> <li>Use the relationship between particular words (e.g., synonym/antonym, analogy) to better understand each of the words.</li> </ul>		to better understand each of the words.  c. Distinguish among the connotations (associations) of words with similar denotations			
	<ul> <li>Distinguish among the connotations         (associations) of words with similar denotations (definitions) (e.g., stingy, scrimping, economical, unwasteful, thrifty).     </li> </ul>		<ul> <li>Distinguish among the connotations         (associations) of words with similar         denotations (definitions) (e.g., refined,         respectful, polite, diplomatic, condescending).</li> </ul>		(definitions) (e.g., bullheaded, willful, firm, persistent, resolute).			
6.	Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression.	6.	Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression.	6.	Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression.			



### Language Standards for Literacy in All Subjects



#### **Grades 9-10 students:**

#### **Grades 11-12 students:**

#### Vocabulary Acquisition and Use

- 4. Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on *grades 9-10 reading and content*, choosing flexibly from a range of strategies.
  - Use context (e.g., the overall meaning of a sentence, paragraph, or text; a word's position or function in a sentence) as a clue to the meaning of a word or phrase.
  - Identify and correctly use patterns of word changes that indicate different meanings or parts of speech (e.g., analyze, analysis, analytical; advocate, advocacy).
  - c. Consult general and specialized reference materials (e.g., dictionaries, glossaries, thesauruses), both print and digital, to find the pronunciation of a word or determine or clarify its precise meaning, its part of speech, or its etymology.
  - d. Verify the preliminary determination of the meaning of a word or phrase (e.g., by checking the inferred meaning in context or in a dictionary).
- 5. Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.
  - a. Interpret figures of speech (e.g., euphemism, oxymoron) in context and analyze their role in the text.
  - b. Analyze nuances in the meaning of words with similar denotations.
- Acquire and use accurately general academic and domain-specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness level; demonstrate independence in gathering vocabulary knowledge when considering a word or phrase important to comprehension or expression.

- 4. Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on *grades 11–12 reading and content*, choosing flexibly from a range of strategies.
  - Use context (e.g., the overall meaning of a sentence, paragraph, or text; a word's position or function in a sentence) as a clue to the meaning of a word or phrase.
  - b. Identify and correctly use patterns of word changes that indicate different meanings or parts of speech (e.g., conceive, conception, conceivable).
  - c. Consult general and specialized reference materials (e.g., dictionaries, glossaries, thesauruses), both print and digital, to find the pronunciation of a word or determine or clarify its precise meaning, its part of speech, its etymology, or its standard usage.
  - d. Verify the preliminary determination of the meaning of a word or phrase (e.g., by checking the inferred meaning in context or in a dictionary).
- 5. Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.
  - a. Interpret figures of speech (e.g., hyperbole, paradox) in context and analyze their role in the text.
  - b. Analyze nuances in the meaning of words with similar denotations.
- Acquire and use accurately general academic and domain-specific words and phrases, sufficient for reading, writing, speaking, and listening at the college and career readiness level; demonstrate independence in gathering vocabulary knowledge when considering a word or phrase important to comprehension or expression.



### Language Progressive Skills, by Grade

The following skills, marked with an asterisk (\*) in Language standards 1-3, are particularly likely to require continued attention in higher grades as they are applied to increasingly sophisticated writing and speaking.

Standard	Grade(s)											
Standard	3	4	5	6	7	8	9-10	11-12				
<b>L.3.1f.</b> Ensure subject-verb and pronoun-antecedent agreement.												
<b>L.3.3a.</b> Choose words and phrases for effect.												
<b>L.4.1f.</b> Produce complete sentences, recognizing and correcting inappropriate fragments and run-ons.												
<b>L.4.1g.</b> Correctly use frequently confused words (e.g., to/too/two; there/their).												
L.4.3a. Choose words and phrases to convey ideas precisely.												
<b>L.4.3b.</b> Choose punctuation for effect.												
<b>L.5.1d.</b> Recognize and correct inappropriate shifts in verb tense.												
<b>L.5.2a.</b> Use punctuation to separate items in a series.												
<b>L.6.1c.</b> Recognize and correct inappropriate shifts in pronoun number and person.												
<b>L.6.1d.</b> Recognize and correct vague pronouns (i.e., ones with unclear or ambiguous antecedents).												
<b>L.6.1e.</b> Recognize variations from standard English in their own and others' writing and speaking, and identify and use strategies to improve expression in conventional language.												
<b>L.6.2a.</b> Use punctuation (commas, parentheses, dashes) to set off nonrestrictive/parenthetical elements.												
<b>L.6.3a.</b> Vary sentence patterns for meaning, reader/listener interest, and style. <sup>‡</sup>												
L.6.3b. Maintain consistency in style and tone.												
<b>L.7.1c.</b> Place phrases and clauses within a sentence, recognizing and correcting misplaced and dangling modifiers.												
<b>L.7.3a.</b> Choose language that expresses ideas precisely and concisely, recognizing and eliminating wordiness and redundancy.												
<b>L.8.1d.</b> Recognize and correct inappropriate shifts in verb voice and mood.												
L.9-10.1a. Use parallel structure.												

<sup>\*</sup> Subsumed by L.7.3a

<sup>&</sup>lt;sup>†</sup>Subsumed by L.9-10.1a

<sup>&</sup>lt;sup>‡</sup> Subsumed by L.11-12.3a



### **Standards for Mathematical Practice**

Mathematical proficiency is necessary for every student; therefore, understanding concepts and being fluent with procedural skills are both important. This means that educators must intentionally engage students at all levels so they are readily able to understand important concepts, use skills effectively and apply mathematics to make sense of their changing world.

Adding it Up (National Research Council, 2001), a major research report that informed the development of the Common Core State Standards for Mathematics, emphasizes the five strands of mathematical proficiency: conceptual understanding, procedural fluency, adaptive reasoning, strategic competence and productive disposition. These strands are not sequential, but intertwined and form the basis for the Standards for Mathematical Content and the Standards for Mathematical Practice. Together, these two sets of mathematics standards define what students should understand and be able to do in their study of PK-12 mathematics.

Standards for Mathematical Practice	Characteristics of Mathematically Proficient Students						
	Mathematically proficient students can:						
	Explain the meaning of a problem and restate it in their words.						
	Analyze given information to develop possible strategies for solving the problem.						
Make sense of problems and	Identify and execute appropriate strategies to solve the problem.						
persevere in solving them.	Evaluate progress toward the solution and make revisions if necessary.						
	Explain the connections among various representations of a problem or concept.						
	Check for accuracy and reasonableness of work, strategy and solution.						
	Understand and connect strategies used by others to solve problems.						
	Mathematically proficient students can:						
	Translate given information to create a mathematical representation for a concept.						
Reason abstractly and quantitatively.	Manipulate the mathematical representation by showing the process considering the meaning of the quantities involved.						
	Recognize the relationships between numbers/quantities within the process to evaluate a problem.						
	Review the process for reasonableness within the original context.						
	Mathematically proficient students can:						
	Use observations and prior knowledge (stated assumptions, definitions and previous established results) to make conjectures and construct arguments.						
Construct viable arguments and	Compare and contrast logical arguments and identify which one makes the most sense.						
critique the reasoning of others.	Justify (orally and in written form) the approach used, including how it fits in the context from which the data arose.						
	Listen, understand, analyze and respond to the arguments of others.						
	Identify and explain both correct and flawed logic.						
	Recognize and use counterexamples to refine assumptions or definitions and dispute or disprove an argument.						



Standards for Mathematical Practice	Characteristics of Mathematically Proficient Students
Model with mathematics.	Mathematically proficient students can:
	Use a variety of methods to model, represent and solve real-world problems.
	Simplify a complicated problem by making assumptions and approximations.
	Interpret results in the context of the problem and revise the model if necessary.
	Choose a model that is both appropriate and efficient to arrive at one or more desired solutions.
Use appropriate tools strategically.	Mathematically proficient students can:
	Identify mathematical tools and recognize their strengths and weaknesses.
	Select and use appropriate tools to best model/solve problems.
	Use estimation to predict reasonable solutions and/or detect errors.
	Identify and successfully use external mathematical resources to pose or solve problems.
	Use a variety of technologies, including digital content, to explore, confirm and deepen conceptual understanding.
Attend to precision.	Mathematically proficient students can:
	Understand symbols and use them consistently within the context of a problem.
	Calculate answers efficiently and accurately and label them appropriately.
	Formulate precise explanations (orally and in written form) using both mathematical representations and words.
	Communicate using clear mathematical definitions, vocabulary and symbols.
Look for and make use of structure.	Mathematically proficient students can:
	Look for, identify and accept patterns or structure within relationships.
	Use patterns or structure to make sense of mathematics and connect prior knowledge to similar situations and extend to novel situations.
	Analyze a complex problem by breaking it down into smaller parts.
	Reflect on the problem as a whole and shift perspective as needed.
Look for and express regularity in repeated reasoning.	Mathematically proficient students can:
	Recognize similarities and patterns in repeated trials with a process.
	Generalize the process to create a shortcut which may lead to developing rules or creating a formula.
	Evaluate the reasonableness of results throughout the mathematical process while attending to the details.

<sup>\*</sup> Collaborative project with Cedarburg, Franklin, Fox Point-Bayside, Grafton, Greendale, Kettle Moraine, Menomonee Falls, Oconomowoc, Pewaukee, Waukesha and Whitefish Bay School Districts and CESA 1.



# **Section VI**

Wisconsin's Guiding Principles for Teaching and Learning



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### **Guiding Principles for Teaching and Learning**

These guiding principles are the underpinnings of effective teaching and learning for every Wisconsin teacher and every Wisconsin student. They are larger than any one initiative, process or set of standards. Rather, they are the lens we look through as we identify teaching and learning standards, design assessments and determine what good instruction looks like. These principles recognize that every student has the right to learn and are built upon three essential elements: high quality instruction, balanced assessment and collaboration. They are meant to align with academic excellence, rigorous instruction and college and career readiness for every Wisconsin student. For additional research, resources and probing questions to support professional learning on the six principles, please see the Wisconsin Research and Resources section of this document.

#### Every student has the right to learn.

It is our collective responsibility as an education community to make certain each child receives a high-quality, challenging education designed to maximize potential, an education that reflects and stretches his or her abilities and interests. This belief in the right of every child to learn forms the basis of equitable teaching and learning. The five principles that follow cannot exist without this commitment guiding our work.

#### Instruction must be rigorous and relevant.

To understand the world in which we live, there are certain things we all must learn. Each school subject is made up of a core of essential knowledge that is deep, rich and vital. Every student, regardless of age or ability, must be taught this essential knowledge. What students learn is fundamentally connected to how they learn and successful instruction blends the content of a discipline with processes of an engaging learning environment that changes to meet the dynamic needs of all students.



#### Purposeful assessment drives instruction and affects learning.

Assessment is an integral part of teaching and learning. Purposeful assessment practices help teachers and students understand where they have been, where they are and where they might go next. No one assessment can provide sufficient information to plan teaching and learning. Using different types of assessments as part of instruction results in useful information about student understanding and progress. Educators should use this information to guide their own practice and in partnership with students and their families to reflect on learning and set future goals.

#### Learning is a collaborative responsibility.

Teaching and learning are both collaborative processes. Collaboration benefits teaching and learning when it occurs on several levels: when students, teachers, family members and the community collectively prioritize education and engage in activities that support local schools, educators and students; when educators collaborate with their colleagues to support innovative classroom practices and set high expectations for themselves and their students; and when students are given opportunities to work together toward academic goals in ways that enhance learning.

#### Students bring strengths and experiences to learning.

Every student learns. Although no two students come to school with the same culture, learning strengths, background knowledge or experiences and no two students learn in exactly the same way, every student's unique personal history enriches classrooms, schools and the community. This diversity is our greatest education asset.

#### Responsive environments engage learners.

Meaningful learning happens in environments where creativity, awareness, inquiry and critical thinking are part of instruction. Responsive learning environments adapt to the individual needs of each student and encourage learning by promoting collaboration rather than isolation of learners. Learning environments, whether classrooms, schools or other systems, should be structured to promote engaged teaching and learning.



# Guiding Principle 1: Every student has the right to learn.

It is our collective responsibility as an education community to make certain each child receives a high-quality, challenging education designed to maximize potential, an education that reflects and stretches his or her abilities and interests. This belief in the right of every child to learn forms the basis of equitable teaching and learning. The five principles that follow cannot exist without this commitment guiding our work.

Every student's right to learn provides the overarching vision for Wisconsin's Guiding Principles for education. To be successful, education must be committed to serving the learning needs of students from various social, economic, cultural, linguistic and developmental backgrounds. For all students to have a guaranteed right to learn, schooling must be equitable.

#### **Research Summary**

#### Focusing on Equity

The belief that each student has the right to learn despite differences in educational needs and backgrounds has important implications for ensuring an equitable education for all students. In the education research literature. the term educational equality refers to the notion that all students should have access to an education of similar quality—the proxy for which is frequently educational inputs such as funding, facilities, resources and quality teaching and learning. In contrast, the term educational equity connotes the requirement that all students receive an education that allows them to achieve at a standard level or attain standard educational outcomes (Brighouse & Swift, 2008). Importantly, equality in terms of educational resources or inputs may not guarantee equity in educational outcomes because not all students reach the same level of achievement with the same access to resources (Brighouse & Swift, 2008). To serve students of varying economic, social, developmental or linguistic backgrounds, achieving equity in education may require more resources to meet the greater educational needs of certain students (Berne & Stiefel, 1994).

The research literature offers several components that provide a framework for understanding what an equitable education for all students looks like at the classroom level. These components include a call for all students to be provided with the following:

- Access to resources and facilities
- Instruction in all areas tailored to their needs
- Curriculum that is rigorous and relevant

- Educators who are culturally sensitive and respectful
- Interactions with staff and other students that are positive and encouraging in an atmosphere of learning
- Assessment that is varied to give each student the opportunity to demonstrate learning (Education Northwest, 2011)

#### Access

Access to resources and facilities largely refers to various legal mandates that all children have the right to attend school and participate in all school activities. Since the landmark ruling *Brown v. Board of Education of Topeka* (1954), court decisions and federal regulations have mandated equality of access to all educational opportunities for students regardless of race, ethnicity or gender (Civil Rights Act, 1964), disability (Education for All Handicapped Children Act, 1975) or language (*Lau v. Nichols, 1974*). Equity in the provision of educational resources and funding was improved with the passage of Title I of the Elementary and Secondary Education Act (ESEA; 1965), which provided additional resources for economically disadvantaged students to meet their learning needs. Since Title I, research on equity in education has grown and with the reauthorization of ESEA in the No Child Left Behind Act in 2001, equity in educational outcomes for all students was emphasized in the law. Access to an equitable education is a legal right for all children and the quality of that access in classroom instruction is a moral and ethical right.

#### Instruction

Instruction that is tailored to meet all students' needs goes beyond simply providing equal access to education. High-quality instruction has increasingly been defined in the literature as a key factor in student achievement. High-quality instruction includes differentiated instructional strategies, teaching to students' learning styles and provision of instructional support for students who are educationally, socially or linguistically challenged. Differentiated instruction involves utilizing unique instructional strategies for meeting individual student needs as well as modifying curriculum for both high- and low-performing students. Assessing and teaching to student learning styles is one form of differentiation. Research has shown the value of adapting instructional strategies to different student learning styles (Gardner, 1999) and supports the practice of classroom differentiation (Mulroy & Eddinger, 2003; Tomlinson, 2005).

#### Curriculum

Designing curriculum that is rigorous and relevant provides an important foundation for a high-quality learning environment by helping make



standards-based content accessible to all students. A relevant, rigorous curriculum has been found to be important for all students. Although advanced and rigorous curriculum is generally viewed to be an important factor of academic success for high-achieving students, research also indicates that using challenging, interesting and varied curriculum for students of all achievement levels improves student achievement (Daggett, 2005). Rigorous curriculum can be adapted for low-performing students in a way that challenges them and helps them meet learning standards. For example, the universal design for learning (UDL) offers strategies for making the general curriculum accessible to special education students (Rose, Hasselbring, Stahl, & Zabala, 2009). Similarly, research on lesson scaffolding emphasizes strategies for providing a rigorous content curriculum to student who are culturally or linguistically diverse or who need additional context to understand certain concepts (Gibbons, 2002).

#### Climate

Interactions with staff and students that are positive and focused on learning are part of an emotionally safe school climate, but the literature also supports the need for a climate of high academic expectations (Haycock, 2001). Schools with large numbers of high-poverty and racially diverse students have shown significant academic growth when teachers and staff members create an environment of high expectations for achievement (Reeves, 2010). In addition, research on school climate has asserted the need for students to feel emotionally safe and respected as well as physically safe in school (Gronna & Chin-Chance, 1999).

A positive, respectful learning environment with high expectations and curricular and instructional supports for all students offers an avenue to genuine educational equity.

#### **Probing Questions**

- What are some of the needs and challenges your school faces in moving toward a fully equitable education for all students?
- How could you provide leadership in your school to work to ensure an equitable education for all students?

#### Resources

A variety of resources are available for teachers and leaders on educational equity for all students. A few websites and links are highlighted below:

The School Improvement Center developed activities to help districts develop an equity framework. These resources can be found at Actualizing Equity: The Equity Framework:

http://www.gapsc.com/EducatorPreparation/NoChildLeftBehind/Admin/Files/conference 032010/Actualizing Equity.pdf.

The Education Equality Project developed a website with useful resources for educators. It can be found at http://www.edequality.org.

The Equity Center has a website with a variety of resources. The resources can be found at http://educationnorthwest.org/project/Equity%20Program/resource/.

The Midwest Equity Assistance Center has a website with many resources. It can be found at http://www.meac.org/Publications.html.

The Office for Civil Rights has a useful website for educators. It can be found at http://www2.ed.gov/about/offices/list/ocr/index.html.

Southern Poverty Law Center, Teaching Tolerance Program. Resources can be found at http://www.splcenter.org/what-we-do/teaching-tolerance.

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# **Guiding Principle 2: Instruction must be rigorous and relevant.**

To understand the world in which we live, there are certain things we all must learn. Each school subject is made up of a core of essential knowledge that is deep, rich and vital. Every student, regardless of age or ability, must be taught this essential knowledge. What students learn is fundamentally connected to how they learn and successful instruction blends the content of a discipline with processes of an engaging learning environment that changes to meet the dynamic needs of all students.

#### **Research Summary**

Instruction should connect directly to students' lives and must deeply engage them with the content in order for students to be better prepared for college and careers. To succeed in postsecondary education and in a 21st century economy, students must be afforded opportunities to practice higher-order thinking skills, such as how to analyze an argument, weigh evidence, recognize bias (their own and others' bias), distinguish fact from opinion, balance competing principles, work collaboratively with others and be able to communicate clearly what they understand (Wagner, 2006). In order to accomplish these goals, instruction must be rigorous and meaningful.

The definition of rigor varies greatly in both research and practice. Bower and Powers (2009) conducted a study to determine the essential components of rigor. They defined rigor through their research as "how the standard curriculum is delivered within the classroom to ensure students are not only successful on standardized assessments but also able to apply this knowledge to new situations both within the classroom and in the real world." They also identified higher-order thinking and real-world application as two critical aspects of rigor, suggesting that it is not enough for students to know how to memorize information and perform on multiple-choice and short-answer tests. Students must have deep and rich content knowledge, but rigor also includes the ability to apply that knowledge in authentic ways.

Teaching and learning approaches that involve students collaborating on projects that culminate with a product or presentation are a way to bring rigor into the classroom. Students can take on real problems, use what

they know and research to come up with real solutions to real problems. They must engage with their subject and with their peers.

In August 2010, the Institutes of Education Sciences reported the results of a randomized control trial showing that a problem-based curriculum boosted high school students' knowledge of economics. This research suggests that students using this learning system and its variants score similarly on standardized tests as students who follow more traditional classroom practices. The research also suggests that students learning through problem-solving and projects are more adept at applying what they know and are more deeply engaged.

The notion of a meaningful curriculum is not a new one. John Dewey (1990), writing in 1902, called for a curriculum that involves a critical but balanced understanding of the culture and the prior knowledge of each child in order to extend learning. According to Spillane (2000), presenting content in more authentic ways—disciplinary and other real-world contexts—has become a central theme of current reform movements. Schools should be places where "the work students are asked to do [is] work worth doing" (Darling-Hammond, 2006, p. 21). Research collected by the International Center for Leadership in Education shows that "students understand and retain knowledge best when they have applied it in a practical, relevant setting" (Daggett, 2005, p. 2). A skilled 21st century educator helps students master learning targets and standards using purposefully crafted lessons and teaches with appropriate instructional strategies incorporated. The students understand why they are learning particular skills and content and are engaged in learning opportunities that allow them to use their inquiry skills, creativity and critical thinking to solve problems.

According to Brown, Collins and Duguid (1989), instruction connected to individual contexts has been found to have a significant impact on learning. Research conducted by Sanbonmatsu, Shavitt and Sherman (1991) and Petty and Cacioppo (1984) also contends that student learning is directly influenced by how well it is connected to a context. Much of this research began with the analysis of how people learn when they find the ideas significant to their own world. It begins to show the importance



of connecting content and instruction to the world of the students. Weaver and Cottrell (1988) point out that how content is presented can affect how students retain it. They state instruction that connects the content to the students' lives and experiences helps students to internalize meaning. Sass (1989) and Keller (1987) suggest that if teachers can make the content familiar to the students and link it to what they are familiar with, students' learning will increase. Shulman and Luechauer (1993) contend that these connections must be done by engaging students with rigorous content in interactive learning environments.

#### Higher-Order Thinking

Higher-order thinking, according to Newmann (1990), "challenges the student to interpret, analyze or manipulate information" (p. 45). This definition suggests that instruction must be designed to engage students through multiple levels in order for them to gain a better understanding of the content. An analysis of the research by Lewis and Smith (1993) led to their definition of higher-order thinking: "when a person takes new information and information stored in memory and interrelates and/ or rearranges and extends this information to achieve a purpose or find possible answers in perplexing situations" (p. 44). This definition emphasizes the level of complexity necessary to help students reach a deeper and higher level of understanding of the content. Shulman (1987) points out teachers will need an in-depth knowledge of their content to be able to fit these types of strategies to their instruction.

#### Real-World Application

VanOers and Wardekker (1999) indicate that connecting instruction to real-world applications gives meaning to learning, makes it practical and can help to develop connections with the greater community. Incorporating real-world examples becomes more authentic to students because they will be able to connect the learning to the bigger picture rather than just the classroom. Newmann and Wehlage (1993) describe the three criteria developed by Archbald and Newmann (1988) for this type of authentic learning: "Students construct meaning and produce knowledge, students use disciplined inquiry to construct meaning and students aim their work toward production of discourse, products and performances that have value or meaning beyond success in school" (p. 8) These criteria, when reflected upon by teachers, can be a useful tool to ensure that instruction is authentic and engaging for all students.

#### Authentic Learning

Authentic learning builds on the concept of "learning by doing" to increase a student's engagement. To succeed, this method needs to have meaning or value to the student, embody in-depth learning in the subject and allow the student to use what he or she learned to produce something new and innovative (Lemke & Coughlin, 2009). For example, in project-based learning, students collaborate to create their own projects that demonstrate their knowledge (Bell, 2010). Students start by developing a question that will guide their work. The teacher acts as the supervisor. The goal is greater understanding of the topic, deeper learning, higher-level reading and increased motivation (Bell, 2010). Research has shown that students who engage in project-based learning outscore their traditionally educated peers in standardized testing (Bell, 2010).

Constructivist learning is also a way to bring authenticity to the classroom. Richard Mayer (2004) defines constructivist learning as an "active process in which learners are active sense makers who seek to build coherent and organized knowledge." Students co-construct their learning, with the teacher serving as a guide or facilitator (oftentimes using technology as a facilitating tool). The teacher doesn't function in a purely didactic manner. Neo and Neo (2009) state that constructivism helps students develop problem-solving skills, critical thinking and creative skills and apply them in meaningful ways. Inquiry-based instruction, a type of constructivist learning, has students identify real world problems and then pose and find answers to their own questions. A study by Minner, Levy and Century (2010) has shown this method can improve student performance. They found inquiry-based instruction has a larger impact (approximately 25-30% higher) on a student's initial understanding and retention of content than any other variable.

Another form of authentic learning involves video simulated learning or gaming. Research has shown that video games can provide a rich learning context by fostering creative thinking. The games can show players how to manage complex problems and how their decisions can affect the outcome (Sharritt, 2008). This form of learning also can engage students in collaboration and interaction with peers.

#### Multimodal Instruction

Multimodal teaching leverages various presentation formats—such as printed material, videos, PowerPoints and computers—to appeal to different learning styles (Birch, 2009; Moreno & Mayer, 2007). It



accommodates a more diverse curriculum and can provide a more engaging and interactive learning environment (Birch, 2009). According to research, an effective way of learning is by utilizing different modalities within the classroom, which can help students understand difficult concepts—therefore improving how they learn (Moreno & Mayer, 2007).

An example of multimodal learning that incorporates technology is digital storytelling. Digital storytelling is the practice of telling stories by using technology tools (e.g., digital cameras, authoring tools, computers) to create multimedia stories (Sadik, 2008). Researchers have found that using this form of learning facilitates student engagement, deep learning, project-based learning and effective integration of technology into instruction (Sadik, 2008).

#### **Probing Questions**

Research emphasizes the need for higher-order thinking embedded in instructional practice. How might you learn to incorporate higher-order thinking strategies into your practice?

The research also suggests the need to connect learning experiences to the real world of the students. How can you use real-world examples in your practice to better engage students in their learning?

#### Resources

The Rigor/Relevance Framework created by Daggett (2005) is a useful tool to create units, lessons and assessments that ask students to engage with content at a higher, deeper level. The model and examples are available on the following website: http://www.leadered.com/rrr.html.

Newmann's Authentic Intellectual Work Framework (Newmann, Secada & Wehlage, 1995) gives teachers the tools to analyze instructional practices and student work in regard to indicators of rigor. The research and tools are available at the Center for Authentic Intellectual Work website: http://centerforaiw.com/.

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### **Guiding Principle 3:**

### Purposeful assessment drives instruction and affects learning.

Assessment is an integral part of teaching and learning. Purposeful assessment practices help teachers and students understand where they have been, where they are and where they might go next. No one assessment can provide sufficient information to plan teaching and learning. Using different types of assessments as part of instruction results in useful information about student understanding and progress. Educators should use this information to guide their own practice and in partnership with students and their families to reflect on learning and set future goals.

#### **Research Summary**

Assessment informs teachers, administrators, parents and other stakeholders about student achievement. It provides valuable information for designing instruction; acts as an evaluation for students, classrooms and schools; and informs policy decisions. Instruments of assessment can provide formative or summative data and they can use traditional or authentic designs. Research on assessment emphasizes that the difference between formative and summative assessment has to do with how the data from the assessment is used.

Dunn and Mulvenon (2009) define summative assessment as assessment "data for the purposes of assessing academic progress at the end of a specified time period (i.e., a unit of material or an entire school year) and for the purposes of establishing a student's academic standing relative to some established criterion" (p. 3).

The Council of Chief State School Officers (CCSSO) (2008) define formative assessment as a process "used by teachers and students during instruction that provides feedback to adjust ongoing teaching and learning to improve students' achievement of intended instructional outcomes" (p. 3).

Wisconsin's approach to balanced assessment www.dpi.wi.gov/oea/balanced emphasizes the importance of identifying the purposes for administering an assessment. Identifying the purpose or data needed establishes whether a particular assessment is being used formatively or summatively. There can be multiple purposes for giving a particular assessment, but identifying how the data will be used helps to ensure that

the assessment is collecting the data that is needed for educators, students and their families.

Assessments, whether formative or summative, can be designed as traditional or authentic tools. Traditional assessment uses tools such as paper and pencil tests, while authentic assessment focuses on evaluating student learning in a more "real life" situation. The bulk of the research on assessment design focuses on authentic assessment.

#### Formative Assessment

Using formative assessment as a regular part of instruction has been shown to improve student learning from early childhood to university education. It has been shown to increase learning for both low-performing and high-performing students. Black and Wiliam's (1998) seminal study found that the use of formative assessment produces significant learning gains for low-achieving students. Other researchers have shown similar results for students with special learning needs. (McCurdy & Shapiro, 1992; Fuchs & Fuchs, 1986). Research also supports the use of formative assessment in kindergarten classes (Bergan, Sladeczek, Schwarz, & Smith, 1991) and university students (Martinez & Martinez, 1992).

Formative assessment provides students with information on the gaps that exist between their current knowledge and the stated learning goals (Ramaprasad, 1983). By providing feedback on specific errors it helps students understand that their low performance can be improved and is not a result of lack of ability (Vispoel & Austin, 1995). Studies emphasize that formative assessment is most effective when teachers use it to provide specific and timely feedback on errors and suggestions for improvement (Wininger, 2005), when students understand the learning objectives and assessment criteria and when students have the opportunity to reflect on their work (Ross, 2006; Ruiz-Primo & Furtak, 2006). Recent research supports the use of web-based formative assessment for improving student achievement (Wang, 2007). A number of studies emphasize the importance of teacher professional development on formative assessment in order to gain maximum student achievement benefits (Atkins, Black & Coffey, 2001; Black & Wiliam, 1998). A 2009 article in Educational Measurement asserts that teachers



are better at analyzing formative assessment data than at using it to design instruction. Research calls for more professional development on assessment for teachers (Heritage, Kim, Vendlinski, & Herman, 2009).

#### Authentic Assessment

Generating rich assessment data can be accomplished through the use of an authentic assessment design as well as through traditional tests. Authentic assessments require students to "use prior knowledge, recent learning and relevant skills to solve realistic, complex problems" (DiMartino & Castaneda, 2007, p. 39). Research on authentic assessment often explores one particular form, such as portfolios (Berryman & Russell, 2001; Tierney et al., 1998); however, several studies examined more than one form of authentic assessment: portfolios, project-based assessment, use of rubrics, teacher observation and student demonstration (Darling-Hammond, Rustique-Forrester, & Pecheone, 2005; Herman, 1997; Wiggins, 1990). Authentic assessment tools can be used to collect both formative and summative data. These data can provide a more complete picture of student learning.

#### **Balanced Assessment**

Wisconsin's Next Generation Assessment Task Force (2009) defines the purpose and characteristics of a balanced assessment system:

- Purpose: to provide students, educators, parents and the public with a range of information about academic achievement and to determine the best practices and policies that will result in improvements to student learning.
- Characteristics: includes a continuum of strategies and tools that are designed specifically to meet discrete needs—daily classroom instruction, periodic checkpoints during the year and annual snapshots of achievement. (p. 6)

A balanced assessment system is an important component of quality teaching and learning. Stiggins (2007) points out that a variety of quality assessments must be available to teachers in order to form a clearer picture of student achievement of the standards. Popham (2008) believes that when an assessment is of high quality, it can accurately detect changes in student achievement and can contribute to continuous improvement of the educational system.

#### **Probing Questions**

- How might you use questioning and discussion in your classroom in a way that gives you formative assessment information on all students?
- How can you use assignments and tests as effective formative assessment?
- How could you design and implement a balanced assessment system that includes pre- and post-assessments for learning?

#### Resources

Rick Stiggins, founder and director of the Assessment Training Institute, provides resources on the practice of assessment at http://www.assessmentinst.com/author/rick-stiggins/.

Margaret Heritage's books Formative Assessment for Literacy and Academic Language (2008, coauthored with Alison Bailey) and Formative Assessment: Making It Happen in the Classroom (2010) provides resources and practices. These books are available through bookstores.

ASCD has publications on assessment at http://www.ascd.org/ SearchResults.aspx?s=assessment&c=1&n=10&p=0.

The National Middle Schools Association provides assessment information through a search for "assessment" at http://www.nmsa.org/.
Boston (2002) recommends the following resources for assessment:

A Practical Guide to Alternative Assessment, by J. R. Herman, P. L. Aschbacher and L.Winters. Available at a variety of booksellers.

Improving Classroom Assessment: A Toolkit for Professional Developers http://educationnorthwest.org/resource/700 Classroom Assessment and the National Science Education Standards http://www.nap.edu/catalog/9847.html

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# Guiding Principle 4: Learning is a collaborative responsibility.

Teaching and learning are both collaborative processes. Collaboration benefits teaching and learning when it occurs on several levels: when students, teachers, family members and the community collectively prioritize education and engage in activities that support local schools, educators and students; when educators collaborate with their colleagues to support innovative classroom practices and set high expectations for themselves and their students; and when students are given opportunities to work together toward academic goals in ways that enhance learning.

# **Research Summary**

Collaborative learning is an approach to teaching and learning that requires learners to work together to deliberate, discuss and create meaning. Smith and MacGregor (1992) define the term as follows:

"Collaborative learning" is an umbrella term for a variety of educational approaches involving joint intellectual effort by students or students and teachers together. Usually, students are working in groups of two or more, mutually searching for understanding, solutions or meanings or creating a product. Collaborative learning activities vary widely, but most center on students' exploration or application of the course material, not simply the teacher's presentation or explication of it. (p. 1)

Collaborative learning has been practiced and studied since the early 1900s. The principles are based on the theories of John Dewey (2009), Lev Vygotsky (1980) and Benjamin Bloom (1956). Their collective work focusing on how students learn has led educators to develop more student-focused learning environments that put students at the center of instruction. Vygotsky specifically stated that learning is a social act and must not be done in isolation. This principle is the foundation of collaborative learning.

The research of Vygotsky (1980) and Jerome Bruner (1985) indicates that collaborative learning environments are one of the necessities for learning. Slavin's (1989) research also suggests that students and teachers learn more, are more engaged and feel like they get more out of their classes when working in a collaborative environment. Totten, Sills, Digby

and Russ (1991) found that those involved in collaborative learning understand content at deeper levels and have higher rates of achievement and retention than learners who work alone. They suggest that collaborative learning gives students opportunities to internalize their learning.

A meta-analysis from the Cooperative Learning Center at the University of Minnesota concluded that having students work collaboratively has significantly more impact on learning than having students work alone (Johnson, Maruyama, Johnson, Nelson, & Skon, 1981). An analysis of 122 studies on cooperative learning revealed:

- More students learn more material when they work together talking through the material with each other and making sure that all group members understand—than when students compete with one another or work alone individualistically.
- More students are motivated to learn the material when they work together than when students compete or work alone individualistically (and the motivation tends to be more intrinsic).
- Students have more positive attitudes when they work together than when they compete or work alone individualistically.
- Students are more positive about the subject being studied, the teacher and themselves as learners in that class and are more accepting of each other (male or female, handicapped or not, bright or struggling or from different ethnic backgrounds) when they work together.

Collaboration can be between teachers, between students and between teacher and student.

#### Teacher-Teacher Collaboration

It is critical for teachers to have the time to collaborate. Professional learning communities, which provide teachers with established time to collaborate with other teachers, have become a more common practice in recent years. Louis and Kruse (1995) conducted a case study analysis that highlighted some of the positive outcomes associated with professional learning communities, including a reduction in teacher isolation, increases in teacher commitment and sense of shared responsibility and a better understanding of effective instructional practices. Professional learning



communities encourage collaborative problem solving and allow teachers to gain new strategies and skills to improve and energize their teaching and classrooms.

Another example of teacher-to-teacher collaboration is lesson study. This professional development process began in Japan. Lesson study is a collaborative approach to designing and studying classroom lessons and practice. The most critical components of lesson study are observation of the lesson, collection of data about teaching and learning and a collaborative analysis of the data to further impact instruction (Lewis, 2002; Lewis & Tsuchida, 1998; Wang-Iverson & Yoshida, 2005). Some of these characteristics are similar to other forms of professional development—analyzing student work, cognitive coaching and action research, to name a few—but the fact that it focuses on teachers observing a live lesson that was collaboratively developed is different than any other form of professional development. Lesson study is a way for teachers to work together, collect data and analyze data to reflect on teaching and learning (Lewis, 2002).

#### Student-Student Collaboration

Collaborative learning not only allows students to engage deeply with content but also helps students build the interpersonal skills needed to be successful in college and careers. Johnson, Johnson and Holubec (1993) state that collaborative learning provides students with the opportunity to develop social skills. They found that many of the outcomes expected as part of a collaborative learning activity corresponded with goals for student content understanding and skill attainment. The strategies associated with collaborative learning—such as role assignments, collaborative problem solving and task and group processing—all build the social skills that students need to be successful when working with others. Additionally, these skills are important in preparing students for the world of work, where collaborative writing and problem-solving are key elements of many careers.

There is a plethora of instructional and learning strategies that encourage student collaboration, including peer teaching, peer learning, reciprocal learning, team learning, study circles, study groups and work groups, to name just a few (Johnson & Johnson, 1986). Collaborative inquiry, which combines many of the elements of student collaboration just mentioned, is a research-based strategy in which learners work together through various phases "of planning, reflection and action as they explore an issue or question of importance to the group" (Goodnough, 2005 88). Collaborative inquiry brings together many perspectives to solve a problem, engaging students in relevant learning around an authentic question. It allows students to work together

toward a common purpose to explore, make meaning and understand the world around them (Lee & Smagorinsky, 2000).

#### Teacher-Student Collaboration

The purpose for collaboration in an educational setting is to learn and unpack content together to develop a shared understanding. Harding-Smith (1993) points out that collaborative learning approach is based on the idea that learning must be a social act. It is through interaction that learning occurs. Johnson and Johnson (1986) similarly emphasize that when students and teachers talk and listen to each other; they gain a deeper understanding of the content and can develop the skills necessary to negotiate meaning throughout their lives.

Collaboration requires a shift from teacher-led instruction to instruction and learning that is designed by both teachers and students.

Collaboration between student and teacher plays a critical role in helping students reflect and engage in their own learning experiences. The constructivist learning movement is one current example of efforts to increase the amount of collaboration between student and teacher occurring in the classroom. Mayer (2004) defines constructivist learning as an "active process in which learners are active sense makers who seek to build coherent and organized knowledge" (p. 14). Students coconstruct their learning, with the teacher serving as a guide or facilitator. The teacher does not function in a purely didactic (i.e., lecturing) role. Neo and Neo (2009) found that constructivism helps students develop problem-solving skills, critical thinking and creative skills and apply them in meaningful ways.

# **Probing Questions**

- How can you use collaborative learning processes to engage students in their learning?
- How might you create space for teacher-teacher collaboration within your context?



# Resources

All Things PLC website provides a number of resources on professional learning communities. Links to these resources can be found at http://www.allthingsplc.info/.

The Wisconsin Center for Education Research hosts a website with many resources for collaborative and small group learning. It can be found at http://www.wcer.wisc.edu/archive/cl1/cl/.

The Texas Collaborative for Teaching Excellence has created a professional development module about collaborative learning, which provides readings, research and resources. It can be found at http://www.texascollaborative.org/Collaborative Learning Module.htm.

A review of research on professional learning communities, presented at the National School Reform Faculty research forum in 2006, contains findings that outline what is known about professional learning communities and how they should be structured. This paper is available at http://www.nsrfharmony.org/research.vescio\_ross\_adams.pdf.

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# **Guiding Principle 5: Students bring strengths and experiences to learning.**

Every student learns. Although no two students come to school with the same culture, learning strengths, background knowledge or experiences and no two students learn in exactly the same way, every student's unique personal history enriches classrooms, schools and the community. This diversity is our greatest education asset.

#### **Research Summary**

The authors of the groundbreaking work How People Learn: Brain, Mind, Experience and School (Bransford, Brown, & Cocking, 2000) found that students' preconceptions may clash with new concepts and information they learn in school. If those preconceptions are not addressed, students may fail to grasp what is being taught or may learn only to pass a test. In other words, a student might enter kindergarten believing the world is flat because he or she has seen a flat map. Despite the presentation of geographic names and principles, the student still maintains the fundamental preconception about the shape of the world. Developing competence—or in this case, a knowledge of the shape of the world—requires that students have a deep foundation of factual knowledge, a context or conceptual framework to place it in and the opportunity to explore how it connects to the real world. Ultimately, a metacognitive approach—one that pushes students to think about their own thought processes—can help them take control of their own learning.

As educational research on how people learn advances, so does our approach to teaching and learning. Strategies to advance teaching and learning are constantly evolving into new and innovative ways to reach learners. When a teacher uses students' interests, curiosity and areas of confidence as starting points in planning instruction, learning is more productive. Teachers who are cognizant of these issues—and reflect on how to use them as strengths upon which they can build—ensure that all students have access to the content. Areas to consider are student strengths, gender, background knowledge and connections to the home environment.

# **Building on Student Strengths**

Teaching to students' strengths can improve student engagement (Sternberg, 2000, Sternberg & Grigorenko, 2000). Many students have strengths that are unrecognized and neglected in traditional schooling.

Students in underrepresented minority groups have culturally relevant knowledge that teachers can use to promote learning. Sternberg et al. (2000) found that conventional instruction in school systematically discriminates against students with creative and practical strengths and tends to favor students with strong memory and analytical abilities. This research, combined with Sternberg's earlier (1988) research showing that teaching for diverse styles of learning produces superior results, suggests that capitalizing on the various strengths that all students bring to the classroom can positively affect students' learning. When students are taught in a way that fits how they think, they do better in school (Sternberg, 2000; Sternberg & Grigorenko, 2000). Sternberg and O'Hara (2000) found that when students were taught in a way that incorporated analytical thinking, creative thinking (creating, imagining and inventing) and practical thinking (applying, implementing and putting into practice)—students achieved at higher levels than when taught using conventional instructional methods.

#### **Gender Considerations**

Changing instruction might help alleviate the gender gap in literacy achievement. Research conducted by Sax (2005) reveals that boys fall behind girls in reading and writing early on and never catch up. Sax (2007) found that this dynamic plays a role in higher high school dropout rates for males, particularly black males. The college graduation rate for females approaches twice that of males in Hispanic and black populations. Many classrooms are a better fit for the verbal-emotive, sit-still, takenotes, listen-carefully, multitasking girl (Sax, 2005). The characteristics that boys bring to learning—impulsivity, single-task focus, spatial-kinesthetic learning and physical aggression—often are viewed as problems.

Researchers such as Blum (1997) have identified more than 100 structural differences between the male and female brains. Altering strategies to accommodate more typically male assets—for example, the use of multimodal teaching (discussed on pages 10-11 of this report); the use of various display formats, such as printed material, videos, presentations and computers; and an interactive learning environment to appeal to different learning styles—can help bridge the gap between what students are thinking and what they are able to put down on paper. Sadik's (2008) research suggests that using multimodal instructional strategies like digital



storytelling—allowing students to incorporate digital cameras, creative and editing tools, computers and other technology to design multimedia presentations—deepens students' learning.

Background Knowledge Bransford et al. (2000) note in How People Learn, learning depends on how prior knowledge is incorporated into building new knowledge and thus teachers must take into account students' prior knowledge. Jensen's (2008) research on the brain and learning demonstrates that expertise cannot be developed merely through exposure to information. Students must connect the information to their prior knowledge to internalize and deepen their understanding. Teachers can connect academic learning with real-life experiences. Service learning, project-based learning, school-based enterprises and student leadership courses are some examples of how schools are trying to make the curriculum relevant. The key to making the curriculum relevant is asking the students to help connect the academics to their lives; this approach gets students actively engaged in their learning, which builds a stronger connection and commitment to school. Bell (2010) suggests that strategies such as project-based approaches to learning can help ensure that content and skills are taught together and connected to prior knowledge, which helps students understand how to develop and apply new skills in various contexts.

#### Connections to the Home Environment

Cochran-Smith (2004) emphasizes family histories, traditions and stories as an important part of education. Often, children enter school and find themselves in a place that does not recognize or value the knowledge or experience they bring from their homes or communities. This situation can create a feeling of disconnect for students—a dissonance obliging them to live in and navigate between two different worlds, each preventing them from full participation or success in the other. Districts and schools can alleviate this dissonance by valuing and taking advantage of the unique experiences that each student brings to the classroom. Emphasizing connections to parents and community, recognizing and utilizing student strengths and experiences and incorporating varied opportunities within the curriculum can help alleviate this dissonance.

Ferguson (2001) points out that it is particularly important to establish connections that not only bring the parents into the school environment but also encourage school understanding and participation within the community. Social distinctions often grow out of differences in attitudes, values, behaviors and family and community practices (Ferguson, 2001).

Students need to feel their unique knowledge and experience is valued by the school and parents and community members need to feel they are respected and welcome within the school.

Although much attention has been paid to No Child Left Behind (NCLB) requirements for annual achievement tests and high-quality teachers, the law also includes important requirements for schools, districts and states to organize programs of parental involvement and to communicate with parents and the public about student achievement and the quality of schools. Epstein (2005) offers perspectives on the NCLB requirements for family involvement; provides a few examples from the field; suggests modifications that are needed in the law; and encourages sociologists of education to take new directions in research on school, family and community partnerships.

### **Probing Questions**

- What are some ways that you currently use students' background knowledge to inform instruction?
- Does your experience teaching boys to read and write concur with the research? What ideas do you have to address the achievement gaps related to gender?
- What are ways you can uncover, acknowledge and use students' backgrounds and strengths to enhance learning?
- What are some strategies for valuing and taking advantage of the unique experiences that each student brings to the classroom?

#### Resources

A good resource still valid today is Making Assessment Work for Everyone: How to Build on Student Strengths. See the SEDL website to download this resource: http://www.sedl.org/pubs/tl05/.

A short, easy-to-digest article from Carnegie Mellon University is titled Theory and Research-Based Principles of Learning. The article and full bibliography are at http://www.cmu.edu/teaching/principles/learning.html.

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# **Guiding Principle 6:** Responsive environments engage learners.

Meaningful learning happens in environments where creativity, awareness, inquiry and critical thinking are part of instruction. Responsive learning environments adapt to the individual needs of each student and encourage learning by promoting collaboration rather than isolation of learners. Learning environments, whether classrooms, schools or other systems, should be structured to promote engaged teaching and learning.

### **Research Summary**

To be effective for all students, classroom learning environments must be responsive to a broad range of needs among a diverse student population. These diverse needs include cultural and linguistic differences as well as developmental levels, academic readiness and learning styles. A responsive learning environment engages all students by providing a respectful climate where instruction and curriculum are designed to respond to the backgrounds and needs of every student.

## Culturally Responsive Teaching

Research on culturally responsive teaching emphasizes the importance of teachers' understanding the cultural characteristics and contributions of various ethnic groups (Smith, 1998) and showing respect toward these students and their culture (Ladson-Billings, 1995; Pewewardy & Cahape, 2003). Culturally responsive teaching is defined by Gay (2002) as "using the cultural characteristics, experiences and perspectives of ethnically diverse students as conduits for teaching them more effectively" (p. 106).

Research on culturally responsive teaching has found that students both are more engaged in learning and learn more effectively when the knowledge and skills taught are presented within a context of their experience and cultural frames of references (Au & Kawakami, 1994; Gay, 2000; Ladson-Billings, 1995). Areas considered part of creating a culturally responsive learning environments are (1) understanding the cultural lifestyles of their students, such as which ethnic groups give priority to communal living and problem solving; (2) knowing differences in the modes of interaction between children and adults in different ethnic groups; and (3) becoming aware of cultural implications of gender role socialization among different groups (Banks & Banks, 2001). To provide a culturally responsive learning environment teachers need to:

- Communicate high expectations for all students (Gay, 2000; Hollins & Oliver, 1999; Ladson-Billings, 1994, Nieto, 1999).
- Use active teaching methods and act as learning facilitators (Banks & Banks, 2001; Gay, 2000).
- Maintain positive perspectives on families of diverse students (Delgado-Gaitin & Trueba, 1991).
- Gain knowledge of cultures of the students in their classrooms (Banks & Banks, 2001; Nieto, 1999).
- Reshape the curriculum to include culturally diverse topics (Banks & Banks, 2001; Gay, 2000; Hilliard, 1991).
- Use culturally sensitive instruction that includes studentcontrolled discussion and small-group work (Banks & Banks, 2001; Nieto, 1999).

Further research asserts that culturally responsive teachers help students understand that knowledge is not absolute and neutral but has moral and political elements. This knowledge can help students from diverse groups view learning as empowering (Ladson-Billings, 1995; Tharp & Gallimore, 1988).

Strategies for designing curriculum and instruction for culturally diverse students are similar to the strategies for differentiating curriculum and instruction. In fact, Mulroy and Eddinger (2003) point out that the research on differentiation emerged, in part, because of the demand on schools to serve an increasingly diverse student population. Heacox (2002) asserts that classrooms are diverse in cognitive abilities, learning styles, socioeconomic factors, readiness, learning pace and gender and cultural influences.

# Differentiation

Research on differentiation includes meeting the learning needs of all students through modifying instruction and curriculum to consider developmental level, academic readiness and socioeconomic backgrounds, as well as cultural and linguistic differences. Tomlinson (2005) defines differentiated instruction as a philosophy of teaching based on the premise that students learn best when their teachers accommodate the difference in their readiness levels, interests and learning profiles. In a differentiated learning environment, each student is



valued for his or her unique strengths while being offered opportunities to learn and demonstrate learning through a variety of strategies (Mulroy & Eddinger, 2003). Hall (2002) states, "To differentiate instruction is to recognize students' varying backgrounds, readiness, language, learning preferences and interests and to react responsively" (p. 1).

According to Tomlinson (2005), who has written extensively on differentiation, three elements guide differentiated instruction: content, process and product. Content means that all students are given access to the same content but are allowed to master it in different ways. Process refers to the ways in which the content is taught. Product refers to how students demonstrate understanding. Corley (2005) provides three questions that drive differentiation: (1) What do you want the student to know? (2) How can each student best learn this? and (3) How can each student most effectively demonstrate learning? Maker (1986) offers a framework through which differentiation can occur in the classroom:

- Create an encouraging and engaging learning environment through student-centered activities, encouraging independent learning, accepting student contributions, using a rich variety of resources and providing mobility and flexibility in grouping.
- Modify the content according to abstractness and complexity.
   Provide a variety of content and particularly content focused on people.
- Modify the learning process through use of inquiry, higher-order thinking activities, group interactions, variable pacing, creativity and student risk-taking and freedom of choice in learning activities.
- Modify the product through facilitating different ways for students to demonstrate learning, such as the use of authentic assessments.

In addition, researchers have found that the use of flexible grouping and tiered instruction for differentiation increases student achievement (Corley, 2005; Tomlinson & Eidson, 2003). Heacox (2002) describes differentiation as follows:

The focus is not on the adjustment of the students, but rather the adjustment of teaching and instructional strategies making it about learning, not teaching. The teacher is the facilitator who...puts students at the center of teaching and learning and lets his or her students' learning needs direct instructional planning (p. 1).

Several studies conducted in elementary and middle school classroom have found that student achievement is increased in differentiated classrooms (Connor, Morrison, & Katch 2004; McAdamis, 2001). Tomlinson and Eidson (2003) emphasize the need to include the components of student readiness, student interest and student learning profile in differentiating instruction. Students' interests and learning profiles are often tied to their learning styles.

# Learning Styles

The body of research on learning styles has coalesced around the work of Howard Gardner, who introduced the theory of multiple intelligences in 1983. Gardner's work suggests that the concept of a pure intelligence that can be measured by a single I.Q. score is flawed and he has identified nine intelligences that people possess to various degrees. His theory asserts that a person's type of intelligence determines how he or she learns best (Gardner, 1999).

Learning style refers to how a student learns and the concept takes into account cultural background and social and economic factors as well as multiple intelligences. Beishuizen and Stoutjesdjik (1999) define learning style as a consistent mode of acquiring knowledge through study or experience. Research has shown that the quality of learning at all levels of education (primary, secondary and higher education) is enhanced when instruction and curriculum take into account individual learning styles (Dunn, Griggs, Olsen, Beasley & Gorman, 1995). Another study found that student learning improved when the learning environment was modified to allow students to construct personally relevant knowledge and to engage in the materials at different levels and from different points of view (Dearing, 1997).

A responsive classroom environment considers the individual learning needs of all students. These learning needs include a variety of factors that influence how students learn: culture, language, developmental level, readiness, social and economic background and learning style.

#### Creativity

Creativity is an essential component for creating an engaging and accessible classroom environment. The Wisconsin Task Force on Arts and Creativity in Education (2009) defines creativity as a process that combines "imagination, creativity and innovation to produce something novel that has value" (p. 14). Sir Ken Robinson (2011) and Daniel Pink



(2006) both support the need for schools to focus on creating classroom that foster this type of creativity in students. According to Robinson (2011), classrooms that foster creativity and allow students to question assumptions, look at content through various lenses and create new understandings can help students be more successful in postsecondary education and the workplace.

#### **Probing Questions**

- Describe two or three ways you might differentiate the instruction in your classroom. How might you share this with a new teacher?
- How might you implement a simple strategy for assessing your students' learning styles?

#### Resources

ASCD offers a number of resources on differentiated instruction, including work by Carol Ann Tomlinson, at http://www.ascd.org.

For resources on culturally responsive teaching, the Center for Culturally Responsive Teaching and Learning can be accessed at http://www.culturallyresponsive.org/.

The website of the National Center for Culturally Responsive Education Systems (NCCRESt) can be accessed at http://www.nccrest.org. For learning styles and resources on multiple intelligences, Thomas Armstrong hosts a website with information on Gardner's Theory of Multiple Intelligences and related teaching resources at http://www.thomasarmstrong.com/multiple\_intelligences.php.

Creativity: Its Place in Education is a report that offers suggestions for creative classrooms and teaching. This report can be found at http://www.jpb.com/creative/Creativity\_in\_Education.pdf.

The report of the Wisconsin Task Force on Arts and Creativity in Education offers recommendations for policy and practice. This report can be found at ftp://doaftp04.doa.state.wi.us/doadocs/taskforce\_report\_final2009pdf.

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