Career and Technical Education 21ˢᵗ Century Skills Crosswalk

LEARNING AND INNOVATION

Learning and innovation skills increasingly are being recognized as those that separate students who are prepared for a more and more complex life and work environments in the 21ˢᵗ century, and those who are not. A focus on creativity, critical thinking, communication and collaboration is essential to prepare students for the future.

21st Century Skills	CTE – Washington Core Leadership/Employability Skills
Creativity and Innovation	
Think Creatively 1.A.1 Use a wide range of idea creation techniques (such as brainstorming) 1.A.2 Create new and worthwhile ideas (both incremental and radical concepts) 1.A.3 Elaborate, refine, analyze and evaluate their own ideas in order to improve and maximize creative efforts	1.4 The student will be involved in activities that require applying theory, problem-solving, and using critical and creative thinking skills while understanding outcomes of related decisions.
Work Creatively with Others 1.B.1 Develop, implement and communicate new ideas to others effectively 1.B.2 Be open and responsive to new and diverse perspectives; incorporate group input and feedback into the work 1.B.3 Demonstrate originality and inventiveness in work and understand the real world limits to adopting new ideas 1.B.4 View failure as an opportunity to learn; understand that creativity and innovation is a long-term, cyclical process of small successes and frequent mistakes	2.8 The student will demonstrate the ability to incorporate and utilize the principles of group dynamics in a variety of settings. (*Employability*)
Implement Innovations 1.C.1 Act on creative ideas to make a tangible and useful contribution to the field in which the innovation will occur	2.4 The student will demonstrate skills that assist in understanding and accepting responsibility to family, community, and business and industry.
Critical Thinking and Problem Solving	
Reason Effectively 2.A.1 Use various types of reasoning (inductive, deductive, etc.) as appropriate to the situation	1.1 The student will analyze, refine, and apply decision-making skills through classroom, family, community, and business and industry (work-related) experiences.
Use Systems Thinking 2.B.1 Analyze how parts of a whole interact with each other to produce	1.3 The student will demonstrate an understanding of complex inter-relationships (systems). This means that the student understands social,

overall outcomes in complex systems	organizational, and technological systems; they can monitor and correct performance; and they can design or improve systems. (*Employability*)
Make Judgments and Decisions 2.C.1 Effectively analyze and evaluate evidence, arguments, claims and beliefs 2.C.2 Analyze and evaluate major alternative points of view 2.C.3 Synthesize and make connections between information and arguments 2.C.4 Interpret information and draw conclusions based on the best analysis 2.C.5 Reflect critically on learning experiences and processes	1.1 The student will analyze, refine, and apply decision-making skills through classroom, family, community, and business and industry (work-related) experiences.
Solve Problems 2.D.1 Solve different kinds of non-familiar problems in both conventional and innovative ways 2.D.2 Identify and ask significant questions that clarify various points of view and lead to better solutions	1.4 The student will be involved in activities that require applying theory, problem-solving, and using critical and creative thinking skills while understanding outcomes of related decisions.

Communication and Collaboration

Communicate Clearly 3.A.1 Articulate thoughts and ideas effectively using oral, written and nonverbal communication skills in a variety of forms and contexts 3.A.2 Listen effectively to decipher meaning, including knowledge, values, attitudes and intentions 3.A.3 Use communication for a range of purposes (e.g. to inform, instruct, motivate and persuade) 3.A.4 Utilize multiple media and technologies, and know how to judge their effectiveness a priori as well as assess their impact 3.A.5 Communicate effectively in diverse environments (including multi-lingual)	1.3 The student will demonstrate oral, interpersonal, written, and electronic communication and presentation skills and understands how to apply those skills.
Collaborate with Others 3.B.1 Demonstrate ability to work effectively and respectfully with diverse teams 3.B.2 Exercise flexibility and willingness to be helpful in making necessary compromises to accomplish a common goal 3.B.3 Assume shared responsibility for collaborative work, and value the individual contributions made by each team member	2.1 The student will communicate, participate, and advocate effectively in pairs, small groups, teams, and large groups in order to reach common goals.

INFORMATION, MEDIA AND TECHNOLOGY SKILLS

People in the 21st century live in a technology and media-suffused environment, marked by various characteristics, including: 1) access to an abundance of information, 2) rapid changes in technology tools, and 3) the ability to collaborate and make individual contributions on an unprecedented scale. To be effective in the 21st century, citizens and workers must be able to exhibit a range of functional and critical thinking skills related to information, media and technology.

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21st Century Skills   **CTE – Washington Core Leadership/Employability Skills**

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Information Literacy

21st Century Skills	CTE – Washington Core Leadership/Employability Skills
Access and Evaluate Information 4.A.1 Access information efficiently (time) and effectively (sources) 4.A.2 Evaluate information critically and competently	1.2 The student will demonstrate the ability to acquire and use information in a family, community, business and industry settings. This means that the student can acquire and evaluate data, organize and maintain files, interpret and communicate, and use computers to process information. (*Employability*)
Use and Manage Information 4.B.1 Use information accurately and creatively for the issue or problem at hand 4.B.2 Manage the flow of information from a wide variety of sources 4.B.3 Apply a fundamental understanding of the ethical/legal issues surrounding the access and use of information	1.2 The student will demonstrate the ability to acquire and use information in a family, community, business and industry settings. This means that the student can acquire and evaluate data, organize and maintain files, interpret and communicate, and use computers to process information. (Employability)

Media Literacy

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Analyze Media 5.A.1 Understand both how and why media messages are constructed, and for what purposes 5.A.2 Examine how individuals interpret messages differently, how values and points of view are included or excluded, and how media can influence beliefs and behaviors 5.A.3 Apply a fundamental understanding of the ethical/legal issues surrounding the access and use of media	
Create Media Products 5.B.1 Understand and utilize the most appropriate media creation tools, characteristics and conventions 5.B.2 Understand and effectively utilize the most appropriate	

expressions and interpretations in diverse, multi-cultural environments	

Information, Communications and Technology (ICT) Literacy

Apply Technology Effectively 6.A.1 Use technology as a tool to research, organize, evaluate and communicate information 6.A.2 Use digital technologies (computers, PDAs, media players, GPS, etc.), communication/networking tools and social networks appropriately to access, manage, integrate, evaluate and create information to successfully function in a knowledge economy 6.A.3 Apply a fundamental understanding of the ethical/legal issues surrounding the access and use of information technologies	1.4 The student will demonstrate an ability to work with a variety of technologies, identify or solve problems with equipment, including computers and other technologies. This means that the student understands that the student can select equipment and tools, apply technology to specific tasks, and maintain and troubleshoot equipment. (*Employability*)

LIFE AND CAREER SKILLS

Today's life and work environments require far more than thinking skills and content knowledge. The ability to navigate the complex life and work environments in the globally competitive information age requires students to pay rigorous attention to developing adequate life and career skills.

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Flexibility and Adaptability

Adapt to Change 7.A.1 Adapt to varied roles, jobs responsibilities, schedules and contexts 7.A.2 Work effectively in a climate of ambiguity and changing priorities	2.3 The student will analyze the complex responsibilities of the leader and follower and demonstrate the ability to both lead and follow.
Be Flexible 7.B.1 Incorporate feedback effectively 7.B.2 Deal positively with praise, setbacks and criticism 7.B.3 Understand, negotiate and balance diverse views and beliefs to reach workable solutions, particularly in multi-cultural environments	1.5 The Student will use interpersonal skills to communicate, participate, and advocate effectively in pairs, small groups, teams, and large groups in order to reach common goals. This means that the student can effectively work on teams, teach others, serve customers, lead, negotiate, and work effectively with people from culturally diverse backgrounds. (*Employability*)

Initiative and Self-Direction

Manage Goals and Time 8.A.1 Set goals with tangible and intangible success criteria 8.A.2 Balance tactical (short-term) and strategic (long-term) goals 8.A.3 Utilize time and manage workload efficiently	1.5 The student will demonstrate self-advocacy skills by achieving planned, individual goals.
Work Independently 8.B.1 Monitor, define, prioritize and complete tasks without direct oversight	1.5 The student will demonstrate self-advocacy skills by achieving planned, individual goals.
Be Self-Directed Learners 8.C.1 Go beyond basic mastery of skills and/or curriculum to explore and expand one's own learning and opportunities to gain expertise 8.C.2 Demonstrate initiative to advance skill levels towards a professional level 8.C.3 Demonstrate commitment to learning as a lifelong process 8.C.4 Reflect critically on past experiences in order to inform future progress	

Social and Cross-Cultural

Interact Effectively with Others 9.A.1 Know when it is appropriate to listen and when to speak 9.A.2 Conduct themselves in a respectable, professional manner	2.2 The student will demonstrate knowledge of conflict resolution and challenge management.
Work Effectively in Diverse Teams 9.B.1 Respect cultural differences and work effectively with people from a range of social and cultural backgrounds 9.B.2 Respond open-mindedly to different ideas and values 9.B.3 Leverage social and cultural differences to create new ideas and increase both innovation and quality of work	2.6 The student will use knowledge, build interest, guide and influence decisions, organize efforts, and involve members of a group to assure that a pre-planned group activity is completed.

Productivity and Accountability

Manage Projects 10.A.1 Set and meet goals, even in the face of obstacles and competing pressures 10.A.2 Prioritize, plan and manage work to achieve the intended result	1.1 The student will demonstrate the ability to identify, organize, plan, and allocate resources. This means that the student is able to demonstrate allocating time, money, materials, space, and staff. (*Employability*)

Produce Results
 	
10.B.1 Demonstrate additional attributes associated with producing high quality products including the abilities to:
    10.B.1.a   Work positively and ethically
    10.B.1.b   Manage time and projects effectively
    10.B.1.c   Multi-task
    10.B.1.d   Participate actively, as well as be reliable and punctual
    10.B.1.e   Present oneself professionally and with proper etiquette
    10.B.1.f   Collaborate and cooperate effectively with teams
    10.B.1.g   Respect and appreciate team diversity
    10.B.1.h   Be accountable for results
	1.6 The student will conduct self in a professional manner in practical career applications, organizational forums, and decision-making bodies.

Leadership and Responsibility

Guide and Lead Others 11.A.1 Use interpersonal and problem-solving skills to influence and guide others toward a goal 11.A.2 Leverage strengths of others to accomplish a common goal 11.A.3 Inspire others to reach their very best via example and selflessness 11.A.4 Demonstrate integrity and ethical behavior in using influence and power	2.7 The student will demonstrate the ability to train others to understand the established rules and expectations, rationale, and consequences and to follow those rules and expectations.
Be Responsible to Others 11.B.1 Act responsibly with the interests of the larger community in mind	1.2 The student will identify and analyze the characteristics of family, community, business, and industry leaders.