



Montana Small Schools Alliance

Presents

2022

Curriculum Guide

Career and Technical Education

CTE

K-8

Compiled by

Montana Rural Teachers

Montana County Superintendents

Montana Small Schools Alliance

(1) The content areas covered by the career and technical education standards may include:

- (a) act as a responsible and contributing citizen and employee;
- (b) apply appropriate academic and technical skills;
- (c) attend to personal health and financial well-being;
- (d) communicate clearly, effectively, and with reason;
- (e) consider the environmental, social and economic impacts of decisions;
- (f) demonstrate creativity and innovation;
- (g) employ valid and reliable research strategies;
- (h) utilize critical thinking to make sense of problems and persevere in solving them;
- (i) model integrity, ethical leadership, and effective management;
- (j) plan education and career path aligned to personal goals;
- (k) use technology to enhance productivity; and
- (l) work productively in teams while using cultural/global competence.

(2) Students will learn career and technical education content across programs of study, also known as Career Pathways, and integrated with academic content.

(3) Programs of study may include:

- (a) agriculture, food, and natural resources;
- (b) architecture and construction;
- (c) arts, audio/visual technology, and communications;
- (d) business management and administration;
- (e) education and training;
- (f) finance;
- (g) government and public administration;
- (h) health science;
- (i) hospitality and tourism;
- (j) human services;
- (k) information technology;
- (l) law, public safety, corrections and security;
- (m) manufacturing;
- (n) marketing;
- (o) STEM (science, technology, engineering, math); and
- (p) transportation, distribution and logistics.

This page adopted from the Montana State Curriculum provided by the Office of Public Instruction.

Career and Technical Education
Standard One

Students must acquire skills and behaviors that allow them to act as responsible citizens who contribute to their society.

K	1	2	3	4	5	6-8
explore roles of employees, citizens, and community members	identify the characteristics of citizenship across jobs and communities	recognize the rights and responsibilities of citizenship	identify characteristics of being a productive employee	exploring consequences of actions in communities and workplace	identify activities and behaviors that build and strengthen community; and	defend choices related to positive, safe, legal, and ethical behavior; and
					define employability skills;	practice employability skills;

Career and Technical Education
Standard Two

Students will demonstrate creativity and innovation in problem solving.

K	1	2	3	4	5	6-8
explore more than one way to solve a problem	identify an alternate solution to a problem	discuss ways people work together to solve problems	explore the design cycle	explore innovations and inventions and their originators	communicate complex ideas in creative ways	develop or modify an existing innovation to improve the workplace

Career and Technical Education
Standard Three

Students will utilize critical thinking to make sense of problems and persevere in solving them.

K	1	2	3	4	5	6-8
look for and make use of patterns	look for and make use of patterns	outline and explain the steps to complete a task	compare and explain similarities and differences of patterns and operations	identify models that organize and analyze patterns of information	interpret data to observe and explain trends	analyze trends to draw conclusions and explore solutions to problems
try several methods to solve a problem	try several methods to solve a problem	try several methods to solve a problem	plan and execute activities to develop a solution or complete a project	test and refine methods to solve a problem	compare and contrast multiple approaches to solving a problem or completing a project	analyze and explain how individual behaviors influence processes and environments
			test and refine methods to solve a problem		test and refine methods to solve a problem	evaluate resources in testing and refining solutions to problems before asking for assistance

Career and Technical Education
Standard Four

Students will plan education and career paths aligned to personal goals.

K	1	2	3	4	5	6-8
look for and make use of patterns	look for and make use of patterns	outline and explain the steps to complete a task	compare and explain similarities and differences of patterns and operations	identify models that organize and analyze patterns of information	interpret data to observe and explain trends	analyze trends to draw conclusions and explore solutions to problems
try several methods to solve a problem	try several methods to solve a problem	try several methods to solve a problem	plan and execute activities to develop a solution or complete a project	test and refine methods to solve a problem	compare and contrast multiple approaches to solving a problem or completing a project	analyze and explain how individual behaviors influence processes and environments
			test and refine methods to solve a problem		test and refine methods to solve a problem	evaluate resources in testing and refining solutions to problems before asking for assistance

Career and Technical Education
Standard Five

Students will communicate clearly, effectively and with reason.

K	1	2	3	4	5	6-8
	recognize effective communication and active listening skills to foster positive relationships	practice compromise and conflict resolution with support	apply active listening, compromise, and conflict resolution skills	practice compromise, consensus, and conflict resolution	apply safety, responsibility, and ethical use of information to communicate knowledge of Career Pathways	apply employability skills to productively interact with all team members to accomplish group goals
					demonstrate employability skills to interact with team members to accomplish group goals	integrate a variety of multimedia applications to effectively organize and present information

Career and Technical Education
Standard Six

Students will use technology to enhance productivity, communicate and work collaboratively.

K	1	2	3	4	5	6-8
	explore how technology is used in different jobs and careers	investigate how technology in school and at work enhances learning and connections with others	explain how technology is used in homes, schools, and jobs	select appropriate tools to create and communicate	demonstrate how to work cooperatively and collaboratively with peers when using technology tools	explain how scientific and technological changes impact specific careers
						describe the role of technology within a community in maintaining safe and healthy environments

Career and Technical Education
Standard Seven

Students will work productively in teams using cultural and global competence.

K	1	2	3	4	5	6-8
	explore an awareness of cultural differences to develop a sense of inclusion	work cooperatively to examine issues from multiple viewpoints	recognize and understand barriers to productive communication	engage with learners from diverse cultures through use of available technology	work productively in teams while using cultural/global competence by collaborate across cultures when setting teamwork roles and goals	evaluate local and global challenges
				explain how personal and cultural histories can influence team approaches to completing tasks and projects		evaluate diversity and inclusion language in documents and policies

Career and Technical Education
Standard Eight

Students will consider the environmental, social, and economic aspects of decisions.

K	1	2	3	4	5	6-8
		compare and contrast safety procedures for different environments and tasks	adapt to different environments by adjusting behavior to promote personal and group safety	adapt to different environments by adjusting behavior to promote personal and group safety;	evaluate the effectiveness of safety procedures for different environments and tasks;	evaluate peer behaviors and exhibit personal responsibility to promote personal and group safety in all environments
		identify and explain the reasons for personal protective equipment for personal use	identify and explain the reasons for personal protective equipment for personal and classroom use	predict potential outcomes of various decisions in a complex environment		identify personal protective equipment for workplace, classroom, and personal use, determining when and where it should be utilized
				identify and explain the consequences of both proper and improper personal protective equipment use		

Career and Technical Education
Standard Nine

Students will model integrity, ethical leadership, and effective management.

K	1	2	3	4	5	6-8
		describe the role of a leader	explain how actions and attitudes impact others	contribute constructively to teams assuming various roles and responsibilities to work effectively toward a common goal	model integrity, ethical leadership, and effective management by leading a group activity	examine the importance of professional ethics, cultural, and legal responsibilities of the workplace
			define and give examples of leadership roles			analyze and explain how individual behaviors influence processes and environments
						describe the diversity of workplace environments

Career and Technical Education
Standard Ten

Students will attend to personal health and financial well-being.

K	1	2	3	4	5	6-8
			describe how consumer actions influence the use of resources	investigate advertising and media that influence behavior;	model the interrelationships between mental, emotional, social, cultural, intellectual, and physical health;	investigate the connection between work and financial well-being
						identify how peers positively or negatively influence personal well-being
						develop a personal budget and savings plan

Career and Technical Education
Standard Eleven

Students will employ valid and reliable research strategies.

K	1	2	3	4	5	6-8
			represent data in multiple formats	map data for a culture, community, or state	identify valid data from multiple sources for a variety of career-related research projects	evaluate the accuracy, credibility, perspective, and relevance of information, media, data, and other resources
						curate information from multiple sources to make meaningful connections and draw conclusions
						apply fair use and copyright laws

Career and Technical Education
Standard Twelve

Students will apply appropriate academic and technical skills.

K	1	2	3	4	5	6-8
					read and comprehend a variety of resources to explain procedures, ideas, or concepts in Career Pathways	develop a product using oral, illustrative, or multimedia communications
					construct charts, tables, and graphs using mathematical data	compose well-organized written documents for the workplace
					apply scientific methods including data gathering, direct and indirect observation, and prediction to solve workplace problems	communicate mathematical data using charts, tables, and graphs
						integrate and translate scientific methods to technical data using oral, written, and multimedia communications