

	<h2>F.0 Agriculture, Food &amp; Natural Resources Career Cluster</h2>
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**PROVIDER/PUBLISHER / MATERIAL INFORMATION (TO BE COMPLETED BY PROVIDER/PUBLISHER)**

Provider/Publisher / Imprint:		Grade(s):	
Title of Student Edition:		Student Edition ISBN:	
Title of Teacher Edition:		Teacher Edition ISBN:	
Title of SE Workbook:		SE Workbook ISBN:	

**PUBLISHER CITATION VIDEO: Must be viewed before starting the review of this set of materials.**

Citation Video Link:			
Citation video certification:	I certify that I have viewed the citation video for this specific publisher and set of materials.		
Digital Material Log In (if applicable):	Website:	Username:	Password:

**SCORING (TO BE COMPLETED BY REVIEWER AND FACILITATOR)**

Reviewer Number:		Date:	
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**Section 1: Standards Review: CTE**

**PROVIDER/PUBLISHER INSTRUCTIONS:**

- Provider/Publisher citations for this section will refer to the **Teacher Edition (teacher-facing core material)** and/or **Student Edition/Student Workbook (student-facing core material)**. The cited Teacher Edition, Student Edition, and/or Student Workbook should correspond with titles and ISBNs entered on the Form F cover page, whether in print, online, or both. The review set submitted to the summer review institute should also correspond with what is cited on the Form F. If the review set is an online platform only, then that is what should be cited on the Form F and submitted for review by the review teams. If the review set is in print only, then that is what should be cited on the Form F and submitted for review by the review teams.
- For this section, the provider/publisher will enter two citations per standard (Columns C and G). Each citation should direct the reviewer to a specific location in the materials that best meets the standard. The citations should be concise and should allow the reviewer to easily determine that all components of the standard have been met. **Each citation should cover no more than 3 pages within the materials.**
  - o **Columns C and G:** Enter one citation in Column C and one citation in Column G from either the **Teacher Edition (teacher-facing core material)** OR **Student Edition/Student Workbook (student-facing core material)**. Each citation should direct the reviewer to a specific location in the materials that best meets the standard. **Any cells grayed out do not require a citation.**
- The material will be scored for alignment with each standard as “Meets expectations,” “Partially meets expectations,” or “Does not meet expectations” based on the citations provided.
  - o **NOTE: You may not use a citation more than once across ALL sections of the rubric.**

**Reviewer directions for CTE Standards Review:**

**Columns C-F:** The provider/publisher will provide a citation from the **Teacher Edition (teacher-facing core material)** OR **Student Edition/Student Workbook (student-facing core material) (print and/or digital)** for each standard. Review the cited material and score the material by determining the degree to which it meets the standard:

- o M = Meets the standard
- o P = Partially meets the standard
- o D = Does not meet the standard

Evidence for the publisher citations is required *only* if you score the materials with a D. For your evidence for each standard that scores a D, choose one of the options from the dropdown menu in Column F. If the reason for scoring the materials with a D is not one of the dropdown options, enter your own evidence statement in the cell in Column F.

**o Each score cell (column D) will turn green as you score the materials.**

**Columns G-J:** The provider/publisher will provide a citation from the **Teacher Edition (teacher-facing core material)** OR **Student Edition/Student Workbook (student-facing core material)** (print and/or digital) for each standard. Review the cited material, score the material by determining the degree to which it meets the standard, and **provide evidence from the material to support your determination:**

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**o Each score cell (column H) and evidence cell (column J) will turn green as you score the materials.**

Criteria #	Content Standards and Benchmarks for Career and Technical Education Grades 7-12	Provider/Publisher Citation	Score	If Scored D: Reviewer's Evidence for Publisher Citation	Provider/Publisher Citation	Score	Required: Reviewer's Evidence for Publisher Citation	Comments, other citations, notes
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**STRAND 1: ACADEMIC FOUNDATIONS**

1	<b>CONTENT STANDARD 1:</b> Students will achieve the academic knowledge and skills required to pursue the full range of career and postsecondary education opportunities common to all career clusters. Students will:							
2	(a) complete required training, education and certification to prepare for employment in a particular career field;							
3	(b) demonstrate knowledge and skills in language arts required to pursue the full range of postsecondary education and career opportunities;							
4	(c) demonstrate knowledge and skills of mathematics required to pursue the full range of postsecondary education and career opportunities; and							
5	(d) demonstrate knowledge and skills of science required to pursue the full range of postsecondary and career education opportunities.							

<b>6</b>	<b>CONTENT STANDARD 2:</b> Students will develop specific language arts, math and science skills required to pursue pathway opportunities within a career cluster. Students will:							
<b>7</b>	(a) demonstrate knowledge and skills of language arts specific to a career pathway opportunity;							
<b>8</b>	(b) demonstrate knowledge and skills of mathematics specific to a career pathway opportunity; and							
<b>9</b>	(c) demonstrate knowledge and skills of science specific to a career.							
<b>STRAND 2: COMMUNICATIONS</b>								
<b>10</b>	<b>CONTENT STANDARD 1:</b> Students will use oral and written communication skills in creating, expressing and interpreting information and ideas, including technical terminology and information. Students will:							
<b>11</b>	(a) select and employ appropriate reading and communication strategies to learn and use technical concepts and vocabulary;							
<b>12</b>	(b) demonstrate use of the concepts, strategies and systems for obtaining and conveying ideas and information to enhance communication in the workplace;							
<b>13</b>	(c) locate, organize and reference written information from various sources to communicate with co-workers and clients/participants							
<b>14</b>	(d) evaluate and use information resources to accomplish specific occupational tasks;							
<b>15</b>	(e) use correct grammar, punctuation and terminology to write and edit documents;							
<b>16</b>	(f) develop and deliver formal and informal presentations using appropriate media to engage and inform audiences;							
<b>17</b>	(g) interpret verbal and nonverbal cues/behaviors to enhance communication with co-workers and clients/participants;							
<b>18</b>	(h) develop and interpret tables, charts and figures to support written and oral communications;							
<b>19</b>	(i) listen to and speak with diverse individuals to enhance communication skills; and							
<b>20</b>	(j) exhibit public relations skills to increase internal and external customer/client satisfaction.							

21	<b>CONTENT STANDARD 2:</b> Students will locate, organize and reference written information from various sources to compose and prepare oral and written communications to convey technical concepts and company information. Students will:							
22	(a) use writing and organizational skills to construct reports, graphs and tables;							
23	(b) identify the main ideas of an informational text and determine the essential elements of the text; and							
24	(c) identify and prepare support materials for an oral presentation.							

**STRAND 3: PROBLEM SOLVING AND CRITICAL THINKING**

25	<b>CONTENT STANDARD 1:</b> Students will solve problems using critical thinking skills (analyze, synthesize and evaluate) independently and in teams, using creativity and innovation. Students will:							
26	(a) employ critical thinking skills independently and in teams to solve problems and make decisions (e.g., analyze, synthesize and evaluate);							
27	(b) employ critical thinking and interpersonal skills to resolve conflicts with staff or customers;							
28	(c) identify, write and monitor workplace performance goals to guide progress in assigned areas of responsibility and accountability; and							
29	(d) conduct technical research to gather information necessary for decision-making.							
30	<b>CONTENT STANDARD 2:</b> Students will demonstrate the ability to evaluate and verify the appropriateness of a solution to a problem. Students will:							
31	(a) understand problem-solving techniques; and							
32	(b) study potential, real and perceived emergency situations to recognize and implement appropriate safety and security measures.							

**STRAND 4: INFORMATION TECHNOLOGY APPLICATIONS**

33	<b>CONTENT STANDARD 1:</b> Students will use information technology tools specific to the career cluster to access, manage, integrate and create information. Students will:							
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34	(a) use personal information management (PIM) applications to increase workplace efficiency;							
35	(b) employ technological tools to expedite workflow;							
36	(c) operate internet applications to perform workplace tasks;							
37	(d) operate writing and publishing applications to prepare business communications;							
38	(e) operate presentation applications to prepare and deliver presentations;							
39	(f) employ spreadsheet applications to organize and manipulate data;							
40	(g) employ database applications to manage data; and							
41	(h) employ computer operations applications to manage work tasks.							
42	<b>CONTENT STANDARD 2:</b> Students will recognize and use information technology tools to access, manage, integrate, create and share information within a designated career pathway. Students will:							
43	(a) use computer-based equipment (containing embedded computers or processors) to control devices;							
44	(b) employ collaborative/groupware applications to facilitate group work; and							
45	(c) use installation and operating manuals.							
<b>STRAND 5: SYSTEMS</b>								
46	<b>CONTENT STANDARD 1:</b> Students will demonstrate understanding of roles within teams, work units, departments, organizations, inter-organizational systems and the larger environment. Students will:							
47	(a) describe the nature and types of business organizations to build an understanding of the scope of organizations; and							
48	(b) implement quality control systems and practices to ensure quality products and services.							
49	<b>CONTENT STANDARD 2:</b> Students will identify how key organizational systems and government affect organizational performance and the quality of products and services. Students will:							

50	(a) identify occupation-specific governmental regulations and national, state and local building codes to establish workplace/jobsite regulations and codes;							
51	(b) identify workplace/jobsite environmental hazards in order to promote workplace/jobsite safety; and							
52	(c) understand global context of industries and careers.							
<b>STRAND 6: SAFETY, HEALTH AND ENVIRONMENTAL MANAGEMENT</b>								
53	<b>CONTENT STANDARD 1:</b> Students will demonstrate understanding of the importance of health, safety and environmental management systems in organizations and their importance to organizational performance and regulatory compliance. Students will:							
54	(a) implement personal and jobsite safety rules and regulations to maintain safe and healthful working conditions and environments;							
55	(b) complete work tasks in accordance with employee rights and responsibilities and employer's obligations to maintain workplace safety and health;							
56	(c) employ emergency procedures as necessary to provide aid in workplace accidents; and							
57	(d) employ knowledge of response techniques to create a disaster or emergency response plan.							
58	<b>CONTENT STANDARD 2:</b> Students will follow organizational policies and procedures and contribute to continuous improvement in performance and compliance. Students will:							
59	(a) understand health and safety standards and concepts in the workplace; and							
60	(b) implement procedures to protect the health and safety of all individuals.							
<b>STRAND 7: LEADERSHIP AND TEAMWORK</b>								
61	<b>CONTENT STANDARD 1:</b> Students will use leadership and teamwork skills in collaborating with others to accomplish organizational goals and objectives. Students will:							
62	(a) employ leadership skills to accomplish organizational goals and objectives;							

63	(b) employ organizational and staff development skills to foster positive working relationships and accomplish organizational goals;							
64	(c) employ teamwork skills to achieve collective goals and use team members' talents effectively;							
65	(d) establish and maintain effective working relationships with all levels of personnel and other departments in order to accomplish objectives and tasks;							
66	(e) conduct and participate in meetings to accomplish work tasks; and							
67	(f) employ mentoring skills to inspire and teach others.							
68	<b>CONTENT STANDARD 2:</b> Students will employ conflict identification and resolution to achieve organizational goals and objectives. Students will:							
69	(a) use conflict resolution skills to maintain a smooth workflow; and							
70	(b) use human relations skills to work cooperatively with co-workers and foster good relations between different cultures, genders and backgrounds.							
<b>STRAND 8: ETHICS AND LEGAL RESPONSIBILITIES</b>								
71	<b>CONTENT STANDARD 1:</b> Students will know and understand the importance of professional ethics and legal responsibilities. Students will:							
72	(a) apply ethical reasoning to a variety of workplace situations in order to make ethical decisions; and							
73	(b) interpret and explain written organizational policies and procedures to help employees perform their jobs according to employer rules and expectations.							
74	<b>CONTENT STANDARD 2:</b> Students will apply business laws and regulations to business situations. Students will:							
75	(a) apply laws and regulations to personnel situations; and							
76	(b) apply knowledge of copyright laws to business situations.							
<b>STRAND 9: EMPLOYABILITY AND CAREER DEVELOPMENT</b>								

77	<b>CONTENT STANDARD 1:</b> Students will know and understand the importance of employability skills. Students will:							
78	(a) identify and demonstrate the use of positive work behaviors and personal qualities needed to be employable;							
79	(b) develop a personal career plan to meet career goals and objectives; and							
80	(c) demonstrate skills related to seeking and applying for employment to find and obtain a desired job.							
81	<b>CONTENT STANDARD 2:</b> Students will explore, plan and effectively manage careers. Students will:							
82	(a) maintain a career portfolio to document knowledge, skills and experience in a career field;							
83	(b) demonstrate skills in evaluating and comparing employment opportunities in order to accept employment positions that match career goals;							
84	(c) identify and exhibit traits for retaining employment to maintain employment once secured;							
85	(d) identify and explore career opportunities in one or more career pathways to build an understanding of the opportunities available in the cluster;							
86	(e) recognize and act upon requirements for career advancement to plan for continuing education and training;							
87	(f) continue professional development to keep current on relevant trends and information within the industry;							
88	(g) examine licensing, certification and credentialing requirements at the national, state and local levels to maintain compliance with industry requirements;							
89	(h) examine employment opportunities in entrepreneurship to consider entrepreneurship as an option for career planning; and							
90	(i) understand the essential principles of an entrepreneurial organization.							
<b>STRAND 10: TECHNICAL SKILLS</b>								



91	<b>CONTENT STANDARD 1:</b> Students will demonstrate the use of technical knowledge and skills required to pursue careers in all career clusters, including knowledge of design, operation and maintenance of technological systems critical to the career cluster. Students will:					
92	(a) employ information management techniques and strategies in the workplace to assist in decision-making; and					
93	(b) employ planning and time management skills and tools to enhance results and complete work tasks.					
94	<b>CONTENT STANDARD 2:</b> Students will apply and demonstrate technical skills required for career specialties within a selected career pathway. Students will:					
95	(a) understand technical skill requirements within the career field's techniques; and					
96	(b) establish criteria to identify technical skills needed to run an industry efficiently.					

**Section 1: Standards Review: Common Career Technical Core**

**PROVIDER/PUBLISHER INSTRUCTIONS:**

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- For this section, the provider/publisher will enter two citations per benchmark for the Pathway(s) your materials address (Columns C and G). **You MUST enter a citation for each career cluster benchmark (#1-6), as they apply to any and all pathways in the cluster.** Each citation should direct the reviewer to a specific location in the materials that best meets the benchmark. The citations should be concise and should allow the reviewer to easily determine that all components of the benchmark have been met. **Each citation should cover no more than 3 pages within the materials.**
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**Reviewer directions for CCTC Review:**

**Columns C-F:** The provider/publisher will provide a citation from the **Teacher Edition (teacher-facing core material)** OR **Student Edition/Student Workbook (student-facing core material) (print and/or digital)** for each benchmark. Review the cited material and score the material by determining the degree to which it meets the benchmark:

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Criteria #	Common Career Technical Core for CTE: Agriculture, Food, and Natural Resources	Provider/Publisher Citation	Score	If Scored D: Reviewer's Evidence for Publisher Citation	Provider/Publisher Citation	Score	Required: Reviewer's Evidence for Publisher Citation	Comments, other citations, notes
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**AGRICULTURE, FOOD & NATURAL RESOURCES CAREER CLUSTER (AG)**

1	Analyze how issues, trends, technologies and public policies impact systems.							
2	Evaluate the nature and scope of the cluster and the role agriculture, food and natural resources (AFNR) play in society and the economy.							
3	Examine and summarize importance of health, safety and environmental management systems in AFNR organizations.							
4	Demonstrate stewardship of natural resources in AFNR activities.							
5	Describe career opportunities and means to achieve those opportunities in each of the pathways.							
6	Analyze the interaction among ANFR systems in the production, processing and management of food, fiber and fuel and sustainable use of natural resources.							

**Agribusiness Systems Career Pathway (AG-BIZ)**

7	Apply management planning principles in AFNR businesses.							
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8	Use record keeping to accomplish AFNR business objectives, manage budgets, and comply with laws and regulations.							
9	Manage cash budgets, credit budgets and credit for an AFNR business using generally accepted accounting principles.							
10	Develop a business plan for an AFNR business.							
11	Use sales and marketing principles to accomplish AFNR business objectives							
<b>Animal System Career Pathway (AG-ANI)</b>								
12	Analyze historic and current trends impacting the animal systems industry.							
13	Utilize best-practice protocols based upon animal behaviours for animal husbandry and welfare.							
14	Design and provide proper animal nutrition to achieve desired outcomes for performance, development, reproduction and/or economic production.							
15	Apply principles of animal reproduction to achieve desired outcomes for performance, development and/or economic production.							
16	Evaluate environmental factors affecting animal performance and implement procedures for enhancing performance and animal health.							
17	Classify, evaluate and select animals based on anatomical and physiological characteristics.							
18	Apply principles of effective animal health care.							
<b>Environmental Service Systems Career Pathway (AG-ENV)</b>								
19	Use analytical procedures and instruments to manage environmental service systems.							
20	Evaluate the impact of public policies and regulations on environmental service system operations.							
21	Develop proposed solutions to environmental issues, problems and applications using scientific principles of meteorology, soil science, hydrology, microbiology, chemistry and ecology.							
22	Demonstrate the operation of environmental service systems (e.g., pollution control, water treatment, wastewater treatment, solid waste management and energy conservation).							
23	Use tools, equipment, machinery and technology common to tasks in environmental service systems.							
<b>Food Products &amp; Processing Systems Career Pathway (AG-FD)</b>								

24	Develop and implement procedures to ensure safety, sanitation and quality in food product and processing facilities.							
25	Apply principles of nutrition, biology, microbiology, chemistry and human behavior to the development of food products.							
26	Select and process food products for storage, distribution and consumption.							
27	Explain the scope of the food industry and the historical and current developments of food products and processing.							
<b>Natural Resources Systems Career Pathway (AG-NR)</b>								
28	Plan and conduct natural resource management activities that apply logical, reasoned and scientifically based solutions to natural resource issues and goals.							
29	Analyze the interrelationships between natural resources and humans.							
30	Develop plans to ensure sustainable production and processing of natural resources.							
31	Demonstrate responsible management procedures and techniques to protect or maintain natural resources.							
<b>Plant Systems Career Pathway (AG-PL)</b>								
32	Develop and implement a crop management plan for a given production goal that accounts for environmental factors.							
33	Apply the principles of classification, plant anatomy and plant physiology to plant production and management.							
34	Propagate, culture and harvest plants and plant products based on current industry standards							
35	Apply principles of design in plant systems to enhance an environment (e.g., floral, forest, landscape, and farm).							
<b>Power, Structural &amp; Technical Systems Career Pathway (AG-PST)</b>								
36	Apply physical science principles and engineering applications to solve problems and improve performance in AFNR power, structural and technical systems.							
37	Operate and maintain AFNR mechanical equipment and power systems.							
38	Service and repair AFNR mechanical equipment and power systems.							
39	Plan, build, and maintain AFNR structures.							

40	Use control, monitoring, geospatial and other technologies in AFNR power, structural and technical systems.							
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**Section 2: CTE Content Review**

**PROVIDER/PUBLISHER INSTRUCTIONS:**

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**Reviewer directions for CTE Content Review:**

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- o D = Does not meet the criterion

Evidence for the publisher citations is required *only* if you score the materials with a D. For your evidence for each criterion that scores a D, choose one of the options from the dropdown menu in Column F. If the reason for scoring the materials with a D is not one of the dropdown options, enter your own evidence statement in the cell in Column F.

**o Each score cell (column D) will turn green as you score the materials.**

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Criteria #	Career and Technical Education Content Criteria	Provider/Publisher Citation	Score	If Scored D: Reviewer's Evidence for Publisher Citation	Provider/Publisher Citation	Score	Required: Reviewer's Evidence for Publisher Citation	Comments, other citations, notes
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**FOCUS AREA 1 SEQUENCING AND ARTICULATION:**  
**Instructional materials show sequencing and articulation within and across grade bands and/or pathways.**

1	Instructional materials include a sequence of courses and/or competencies across secondary education that incorporates technical, academic and employability knowledge and skills.							
2	Instructional materials start with broad foundational knowledge and skills and progress in specificity to build students' depth of knowledge and skills.							
3	Content and standards within the instructional materials are non-duplicative and vertically aligned to prepare students to transition seamlessly to the next level of education.							

**FOCUS AREA 2 ENGAGING INSTRUCTION:**  
**Instructional materials are engaging for students.**

4	Instructional materials provide project-based learning and related instructional approaches, such as problem-based, inquiry-based and challenge-based learning.							
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5	Instructional materials incorporate comprehensive career development that is coordinated and sequenced to promote and support the career decision-making and planning of all students.							
<b>FOCUS AREA 3 CAREER DEVELOPMENT: Instructional materials provide career development information for students.</b>								
6	Instructional materials provide opportunities and information on obtaining certifications in pathway related careers.							
7	Instructional materials emphasize the connection between academic and technical knowledge and skills, including through cross-disciplinary collaboration.							
8	Instructional materials incorporate relevant equipment, materials and/or technology to support learning.							
<b>FOCUS AREA 5 TECHNOLOGY: Instructional materials incorporate opportunities to use industry appropriate technology.</b>								
9	Instructional materials provide students with opportunities to use technology to enhance productivity.							
10	Instructional materials offer up-to-date, current technology information and trends for the course and future trends in the industry.							

Section 2: All Content Review				
<b>PROVIDERS/PUBLISHERS:</b> <ul style="list-style-type: none"> <li>The All Content tab will be completed solely by the reviewers. They will score each criterion and provide evidence for their score from the material based on their overall review of the material. You will not provide any citations for this tab.</li> <li>The material will be scored for alignment with each criterion as “Meets expectations,” “Partially meets expectations,” or “Does not meet expectations”.</li> </ul>				
<b>Reviewer directions for All Content Review:</b>		<b>Columns C-F: The criteria presented on this tab will be scored and evidence provided based on your overall review of the materials.</b> Review the material, score the material by determining the degree to which it meets each criterion, and <b>provide evidence from the material to support your determination:</b> <ul style="list-style-type: none"> <li>M = Meets the criterion</li> <li>P = Partially meets the criterion</li> <li>D = Does not meet the criterion</li> </ul> Your evidence should speak to where in the materials you have found the evidence as well as what is in the materials that supports the score given. <ul style="list-style-type: none"> <li><b>Each score cell (column C) and evidence cell (column E) will turn green as you score the materials.</b></li> <li><b>Any cells grayed out do not require a score or evidence.</b></li> </ul>		
Criteria #	All Content Criteria	Score	Required: Reviewer's Evidence from Material	Comments, citations, notes
<b>FOCUS AREA 1 RESOURCES AND SUPPORTS FOR TEACHERS AND STUDENTS:</b> <b>Instructional materials provide teacher resources to support planning and supports for all students.</b>				
1	Instructional materials provide a list of lessons in the Teacher Edition or teacher-facing core material (in print or clearly distinguished/accessible as a teacher-facing core material in digital materials), cross-referencing the standards addressed and providing an estimated instructional time for each lesson, chapter, and unit.			
2	Instructional materials integrate opportunities for digital learning, including interactive digital components, and digital assessment.			
3	Instructional materials incorporate features that aid students and teachers in making meaning of the text.			
4	Instructional materials provide appropriate linguistic support for English Learners and Culturally and Linguistically Diverse students, and accommodations and modifications for other special populations that will support their regular and active participation in learning content.			
<b>FOCUS AREA 2 ASSESSMENT:</b> <b>Instructional materials offer teachers a variety of assessment resources and tools to collect ongoing data about student progress related to the standards.</b>				



5	Instructional materials provide a variety of assessments that measure student progress in all strands of the standards for the content under review. <i>(Adopted New Mexico Content Standards for 2023: 7-12 Career and Technical Education Standards; CSTA K-12 Computer Science Standards; K-12 Health Education Standards; K-12 Physical Education Standards)</i>			
6	Instructional materials provide multiple formative and summative assessments, clearly defining which standards are being assessed through content and language objectives.			
7	Instructional materials provide appropriate assessment alternatives for English Learners, Culturally and Linguistically Diverse students, advanced students, and special needs students.			
<b>FOCUS AREA 3 CULTURAL AND LINGUISTIC PERSPECTIVES AND RESPONSIVENESS: Instructional materials represent a variety of cultural and linguistic perspectives and highlight diversity in culture and language through multiple perspectives.</b>				
8	Instructional materials inform culturally and linguistically responsive pedagogy by affirming students' backgrounds in the materials themselves and in the student discussions.			
9	Instructional materials include tools and resources to relate the content area appropriately to diversity in culture and language.			
10	Instructional materials include tools and resources that demonstrate multiple perspectives in a specific concept.			
11	Instructional materials engage students in critical reflection about their own lives and societies, including cultures past and present in New Mexico.			
12	Instructional materials address multiple ethnic descriptions, interpretations, or perspectives of events and experiences.			