

## F.11 Integrated Science III - Grades 6-8

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## CCC: Crosscuting Concepts CONN: Connections NM: NM STEM Ready Standard CCCSS: Common Core State Standards for ELA/Literacy in Science and Common Core State Standards for Math in Science as identified in the NGSS CCSS: Common Core State Standards for ELA/Literacy in Science and Common Core State Standards for Math in Science as identified in the NGSS PUBLISHER/PROVIDER NSTRUCTIONS: - Publisher/Provider citations for this section will refer to the **Teacher Edition (teacher-facing core material)**. The cited Teacher Edition should correspond with the title and ISBN 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. - For this section, the publisher/provider will enter one citation per DCI, SEP, CCC, CONN, and NM standard in Column D. Each citation should direct the review or 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. Any cells grayed out do not require a citation. o Column D: Enter one citation in Column D from the Teacher Edition (teacher-facing core material). Each citation should direct the reviewer to a specific location in the materials that best meets the standard. The cited material for each DCI, SEP, CCC, and CONN must directly relate to the PE under which they fall. The material will be scored for alignment with each DCI, SEP, CCC, CONN, and NM standard within each PE as "Meets expectations", "Partially meets expectations", or "Does not meet expectations" based on the citations provided. A score for the PE will be derived from the related DCIs, SEPS, CCCs, CONNs, and NM Standards within the PE. o NOTE: You may not use a citation more than once across ALL sections of the rubric. Columns H-K: Using the Student Edition, Student Workbook, or other student-facing materials, provide a citation for each DCI, SEP. CCC, CONN, and MM standard in Column H from the student materials that best meets the standard and addresses all components of the standard. Review the cited material store the material by determining the degree to which it meets the standard, and provide evidence to support user determinations. Abbreviations for the Form F Standards Review Tab: • PE: Performance Expectation • DCI: Disciplinary Core Idea • SEP: Science and Engineering Practices Practices CCC: Crosscutting Concepts CONN: Connections NM: NM STEM Ready Standard CCSS: Common Core State Standards for ELA/Literacy in our determination: o M = Meets the standard o M = Meets the standard o P = Partially meets the standard o D = Does not meet the standard o D = Does not meet the standard standard = Does not meet the standard columns E AND I), score all other components within the PE with a D ind move on to the next PE. o Any cells grayed out of not require a citation or evidence. The score cells in those rows will automatically populate if formulated Reviewer directions for O Auty Curve Section in those rows will automaticary product to do so. 6 Each cell in the Reviewer Citation column, Score column, and Reviewer Evidence column (columns H, I, and K) will turn purple as you score the materials. Column G. o Any cells grayed out do not require a citation or evidence. The score cells in those rows will automatically populate if formulated to do so. o Each cell in the Score column (column E) will turn purple as you score the materials. Criteria F.11 Publisher/Provider Citation from Teacher Edition Score If Scored D: Reviewer's Evidence for Publisher Citation Reviewer Citation from Student Edition/Workbook Required: Reviewer's Evidence Score Comments, other citations, notes # Identifier Integrated Science III Grades 6-8 Standards Review: Contact Forces and Moti MS-PS2-1. Students who demonstrate understanding can: Apply Newton's Third Law to design a solution to a problem involving the motion of two colliding objects. PS2.A: Forces and Motion For any pair of interacting objects, the force exerted by the first DCI object on the second object is equal in strength to the force that the second object exerts on the first, but in the opposite direction (Newton's third law). Constructing Explanations and Designing Solutions Constructing explanations and designing solutions in 6–8 builds on K–5 experiences and progresses to include constructing explanations and designing solutions supported by multiple sources of evidence consistent with scientific ideas, principles, and theories. 3 SEP Apply scientific ideas or principles to design an object, tool, process or system. Systems and System Models Models can be used to represent systems and their nteractions—such as inputs, processes and outputs—and energy ccc interactions and matter flows within systems. Influence of Science, Engineering, and Technology on Society and the Natural World The uses of technologies and any limitations on their use are 5 CONN driven by individual or societal needs, desires, and values; by the findings of scientific research; and by differences in such factors as climate, natural resources, and economic conditions. MS-PS2-2. Students who demonstrate understanding can: Plan an investigation to provide evidence that the change in an object's motion depends on the sum of the forces on the object and the mass of the object. 6 PE PS2.A: Forces and Motion PS2.A: Forces and Motion The motion of an object is determined by the sum of the forces acting on it; if the total force on the object is not zero, its motion will change. The greater the mass of the object, the greater the force needed to achieve the same change in motion. For any given object, a larger force causes a larger change in motion. 7 DCI PS2.A: Forces and Motion All positions of objects and the directions of forces and motions must be described in an arbitrarily chosen reference frame and arbitrarily chosen units of size. In order to share information with other people, these choices must also be shared. 8 DCI Other people, these choices must also be shared. Planning and Carrying Out Investigations Planning and carrying out investigations to answer questions or test solutions to problems in 6-8 builds on K-5 experiences and progresses to include investigations that use multiple variables and provide evidence to support explanations or design solutions • Plan an investigation individually and collaboratively, and in the design: identify independent and dependent variables and controls, what tools are needed to do the gathering, how measurements will be recorded, and how many data are needed SEP measurements will be recorded, and how many data are needed to support a claim. Scientific Knowledge is Based on Empirical Evidence 10 Science knowledge is based upon logical and conceptual connections between evidence and explanations. Stability and Change • Explanations of stability and change in natural or designed systems can be constructed by examining the changes over time 11 ccc and forces at different scales. and torces at different scales. MS-PS3-1. Students who demonstrate understanding can: Construct and interpret graphical displays of data to describe the relationships of kinetic energy to the mass of an object and to the speed of an object. PE 12 PS3.A: Definitions of Energy Motion energy is properly called kinetic energy; it is proportional to the mass of the moving object and grows with the square of its DCI 13 Analyzing and Interpreting Data Analyzing data in 6-8 builds on K-5 and progresses to extending quantitative analysis to investigations, distinguishing between correlation and causation, and basic statistical techniques of data SEP 14 and error analysis.Construct and interpret graphical displays of data to identify linear and nonlinear relationships. Scale, Proportion, and Quantity - Proportional relationships (e.g. speed as the ratio of distance traveled to lime taken) among different types of quantities provide information about the magnitude of properties and processes.

Section 1: Standards Review: Science
Abbreviations for the Form F Standards Review Tab:

		MS-PS4-1. Students who demonstrate understanding can:			
16	PE	Use mathematical representations to describe a simple model for waves that includes how the amplitude of a wave is related to the energy in a wave.			
17	DCI	PS4.A: Wave Properties  • A simple wave has a repeating pattern with a specific wavelength, frequency, and amplitude.			
		Using Mathematics and Computational Thinking Mathematical and computational thinking at the 6–8 level builds			
18	SEP	on K-5 and progresses to identifying patterns in large data sets and using mathematical concepts to support explanations and arguments.			
		Use mathematical representations to describe and/or support scientific conclusions and design solutions.			
19	CONN	Scientific Knowledge is Based on Empirical Evidence  • Science knowledge is based upon logical and conceptual connections between evidence and explanations.			
20	ссс	Patterns Graphs and charts can be used to identify patterns in data.			
21	PE	MS-PS4-2. Students who demonstrate understanding can: Develop and use a model to describe that waves are reflected, absorbed, or transmitted through various			
22	DCI	materials.  PS4.A: Wave Properties A sound wave needs a medium through which it is transmitted.			
		(MS-PS4-2) PS4.B: Electromagnetic Radiation			
23	DCI	<ul> <li>When light shines on an object, it is reflected, absorbed, or transmitted through the object, depending on the object's material and the frequency (color) of the light. (MS-PS4-2)</li> </ul>			
24	DCI	PS4.B: Electromagnetic Radiation  • The path that light travels can be traced as straight lines, except at surfaces between different transparent materials (e.g., air and			
		water, air and glass) where the light path bends. (MS-PS4-2) PS4.B: Electromagnetic Radiation			
25	DCI	A wave model of light is useful for explaining brightness, color, and the frequency-dependent bending of light at a surface between media. (MS-PS4-2)			
26	DCI	PS4.B: Electromagnetic Radiation  • However, because light can travel through space, it cannot be a matter wave, like sound or water waves. (MS-PS4-2)			
27	SEP	Developing and Using Models  Modeling in 6–8 builds on K–5 and progresses to developing, using, and revising models to describe, test, and predict more			
	-	abstract phenomena and design systems.  • Develop and use a model to describe phenomena. (MS-PS4-2)			
28	ccc	Structure and Function Structures can be designed to serve particular functions by taking into account properties of different materials, and how materials can be shaped and used. (MS-PS4-2)			
29	PE	MS-PS4-3. Students who demonstrate understanding can: Integrate qualitative scientific and technical information to			
29	r'E	support the claim that digitized signals are a more reliable way to encode and transmit information than analog signals.			
30	DCI	PS4.C: Information Technologies and Instrumentation  • Digitized signals (sent as wave pulses) are a more reliable way to encode and transmit information.			
		Obtaining, Evaluating, and Communicating Information Obtaining, evaluating, and communicating information in 6-8 builds on K-5 and progresses to evaluating the merit and validity			
31	SEP	of ideas and methods.  • Integrate qualitative scientific and technical information in written			
		text with that contained in media and visual displays to clarify claims and findings.			
32	ccc	Structure and Function  Structures can be designed to serve particular functions.  Influence of Science, Engineering, and Technology on			
33	CONN	Society and the Natural World  Technologies extend the measurement, exploration, modeling,			
		and computational capacity of scientific investigations.  Science is a Human Endeavor			
34	CONN	Advances in technology influence the progress of science and science has influenced advances in technology.      Transference			
Electrica 35	al, Magnetic, and G	Resultational Forces  MS-PS2-3. Students who demonstrate understanding can: Ask questions about data to determine the factors that affect			
	-	the strength of electric and magnetic forces.  PS2.B: Types of Interactions			
36	DCI	Electric and magnetic (electromagnetic) forces can be attractive or repulsive, and their sizes depend on the magnitudes of the charges, currents, or magnetic strengths involved and on the			
		distances between the interacting objects.  Asking Questions and Defining Problems Asking questions and defining problems in grades 6–8 builds from			
		grades K–5 experiences and progresses to specifying relationships between variables, and clarifying arguments and			
37	SEP	models.  • Ask questions that can be investigated within the scope of the classroom, outdoor environment, and museums and other public			
		facilities with available resources and, when appropriate, frame a hypothesis based on observations and scientific principles.			
38	ccc	Cause and Effect  Cause and effect relationships may be used to predict phenomena in natural or designed systems.			
39	PE	MS-PS2-4. Students who demonstrate understanding can: Construct and present arguments using evidence to support the claim that gravitational interactions are attractive and			
		depend on the masses of interacting objects. PS2.B: Types of Interactions			
40	DCI	Gravitational forces are always attractive. There is a gravitational force between any two masses, but it is very small except when one or both of the objects have large mass—e.g., Earth and the sun.			
		Engaging in Argument from Evidence Engaging in argument from evidence in 6–8 builds from K–5			
	<b>a</b> =-	experiences and progresses to constructing a convincing argument that supports or refutes claims for either explanations or			
41	SEP	solutions about the natural and designed world.  Construct and present oral and written arguments supported by empirical evidence and scientific reasoning to support or refute an			
		explanation or a model for a phenomenon or a solution to a problem.			
42	CONN	Scientific Knowledge is Based on Empirical Evidence  • Science knowledge is based upon logical and conceptual connections between evidence and explanations.			
		connections between evidence and expidinations.			

		Systems and System Models			
43	ccc	Systems and System Models  - Models can be used to represent systems and their interactions—such as inputs, processes and outputs—and energy and matter flows within systems.			
44	PE	MS-PS2-5. Students who demonstrate understanding can: Conduct an investigation and evaluate the experimental design to provide evidence that fields exist between objects exerting forces on each other even though the objects are not in contact.			
45	DCI	PS2.B: Types of Interactions - Forces that act at a distance (electric, magnetic, and gravitational) can be explained by fields that extend through space and can be mapped by their effect on a test object (a charged object, or a ball, respectively).			
46	SEP	Planning and Carrying Out Investigations Planning and carrying out investigations to answer questions or test solutions to problems in 6–8 builds on K–5 experiences and progresses to include investigations that use multiple variables and provide evidence to support explanations or design solutions. Conduct an investigation and evaluate the experimental design to produce data to serve as the basis for evidence that can meet the goals of the investigation.			
47	ссс	Cause and Effect     Cause and effect relationships may be used to predict			
48	PE	phenomena in natural or designed systems.  MS-P83-2. Students who demonstrate understanding can: Develop a model to describe that when the arrangement of objects interacting at a distance changes, different amounts			
49	DCI	of potential energy are stored in the system.  PS3.A: Definitions of Energy - A system of objects may also contain stored (potential) energy, depending on their relative positions.			
50	DCI	PS3.C: Relationship Between Energy and Forces  • When two objects interact, each one exerts a force on the other that can cause energy to be transferred to or from the object.			
51	SEP	Developing and Using Models Modeling in 6-8 builds on K-5 and progresses to developing, using and revising models to describe, test, and predict more abstract phenomena and design systems. Develop a model to describe unobservable mechanisms.			
52	ccc	Systems and System Models • Models can be used to represent systems and their interactions – such as inputs, processes, and outputs – and energy and matter flows within systems.			
Earth, So	olar System, Galax	y and Communicating in Space MS-ESS1-1. Students who demonstrate understanding can:			
53	PE	Develop and use a model of the Earth-sun-moon system to describe the cyclic patterns of lunar phases, eclipses of the sun and moon, and seasons.			
54	DCI	ESS1.A: The Universe and Its Stars - Patterns of the apparent motion of the sun, the moon, and stars in the sky can be observed, described, predicted, and explained with models.  ESS1.B: Earth and the Solar System			
55	DCI	• This model of the solar system can explain eclipses of the sun and the moon. Earth's spin axis is fixed in direction over the short- term but tilted relative to its orbit around the sun. The seasons are a result of that tilt and are caused by the differential intensity of sunlight on different areas of Earth across the year.			
56	SEP	Developing and Using Models Modeling in 6-8 builds on K-5 experiences and progresses to developing, using, and revising models to describe, test, and predict more abstract phenomena and design systems.  • Develop and use a model to describe phenomena.			
57	ссс	Patterns Patterns Patterns can be used to identify cause-and-effect relationships.			
58	CONN	Scientific Knowledge Assumes an Order and Consistency in Natural Systems Science assumes that objects and events in natural systems occur in consistent patterns that are understandable through measurement and observation.			
59	PE	MS-ESS1-2. Students who demonstrate understanding can: Develop and use a model to describe the role of gravity in the motions within galaxies and the solar system.			
60	DCI	ESS1.A: The Universe and Its Stars  - Earth and its solar system are part of the Milky Way galaxy, which is one of many galaxies in the universe.			
61	DCI	ESS1.B: Earth and the Solar System • The solar system consists of the sun and a collection of objects, including planets, their moons, and asteroids that are held in orbit around the sun by its gravitational pull on them.			
62	DCI	ESS1.B: Earth and the Solar System  • The solar system appears to have formed from a disk of dust and gas, drawn together by gravity.			
63	SEP	Developing and Using Models Modeling in 6-8 builds on K-5 experiences and progresses to developing, using, and revising models to describe, test, and predict more abstract phenomena and design systems. Develop and use a model to describe phenomena.			
64	ccc	Systems and System Models  Models can be used to represent systems and their interactions.		 	
65	CONN	Scientific Knowledge Assumes an Order and Consistency in Natural Systems  • Science assumes that objects and events in natural systems occur in consistent patterns that are understandable through measurement and observation.			
66	PE	MS-ESS1-3 Students who demonstrate understanding can: Analyze and interpret data to determine scale properties of objects in the solar system.			
67	DCI	ESS1.B: Earth and the Solar System  The solar system consists of the sun and a collection of objects, including planets, their moons, and asteroids that are held in orbit around the sun by its gravitational pull on them.			
68	SEP	Analyzing and Interpreting Data Analyzing data in 6–B builds on K–S experiences and progresses to extending quantitative analysis to investigations, distinguishing between correlation and causation, and basic statistical techniques of data and error analysis.  Analyze and interpret data to determine similarities and differences in findings.			
69	ccc	Scale, Proportion, and Quantity - Time, space, and energy phenomena can be observed at various scales using models to study systems that are too large or too small.			

70	CONN	Interdependence of Science, Engineering, and Technology - Engineering advances have led to important discoveries in virtually every field of science and scientific discoveries have led to the development of entire industries and engineered systems.			
Genetic	S		<u> </u>		
71	PE	MS-LS3-1. Students who demonstrate understanding can: Develop and use a model to describe why structural changes to genes (mutations) located on chromosomes may affect proteins and may result in harmful, beneficial, or neutral effects to the structure and function of the organism.			
72	DCI	LS3.A: Inheritance of Traits  Genes are located in the chromosomes of cells, with each chromosome pair containing two variants of each of many distinct genes. Each distinct gene chiefly controls the production of specific proteins, which in turn affects the traits of the individual. Changes (mutations) to genes can result in changes to proteins, which can affect the structures and functions of the organism and thereby change traits.			
73	DCI	LS3.B: Variation of Traits  In addition to variations that arise from sexual reproduction, genetic information can be altered because of mutations. Though rare, mutations may result in changes to the structure and function of proteins. Some changes are beneficial, others harmful, and some neutral to the organism.			
74	SEP	Developing and Using Models Modeling in 6-B builds on K-5 experiences and progresses to developing, using, and revising models to describe, test, and predict more abstract phenomena and design systems.  - Develop and use a model to describe phenomena.			
75	ccc	Structure and Function  - Complex and microscopic structures and systems can be visualized, modeled, and used to describe how their function depends on the shapes, composition, and relationships among its parts, therefore complex natural structures/systems can be analyzed to determine how they function.			
76	PE	MS-LS3-2. Students who demonstrate understanding can: Develop and use a model to describe why asexual reproduction results in offspring with identical genetic information and sexual reproduction results in offspring with genetic variation.			
77	DCI	LS1.B: Growth and Development of Organisms  Organisms reproduce, either sexually or asexually, and transfer their genetic information to their offspring.			
78	DCI	LS3.A: Inheritance of Traits  - Variations of inherited traits between parent and offspring arise from genetic differences that result from the subset of chromosomes (and therefore genes) inherited.			
79	DCI	LS3.B: Variation of Traits  In sexually reproducing organisms, each parent contributes half of the genes acquired (at random) by the offspring. Individuals have two of each chromosome and hence two alleles of each gene, one acquired from each parent. These versions may be identical or may differ from each other.			
80	SEP	Developing and Using Models Modeling in 6-8 builds on K-5 experiences and progresses to developing, using, and revising models to describe, test, and predict more abstract phenomena and design systems. • Develop and use a model to describe phenomena.			
81	ccc	Cause and Effect Cause and effect relationships may be used to predict phenomena in natural systems.			
82	PE	MS-LS4-5. Students who demonstrate understanding can: Gather and synthesize information about technologies that have changed the way humans influence the inheritance of desired traits in organisms.			
83	DCI	LS4.B: Natural Selection In artificial selection, humans have the capacity to influence certain characteristics of organisms by selective breeding. One can choose desired parental traits determined by genes, which are then passed on to offspring.			
84	SEP	Obtaining, Evaluating, and Communicating Information Obtaining, evaluating, and communicating information in 6–8 builds on K–5 experiences and progresses to evaluating the merit and validity of ideas and methods. Gather, read, and synthesize information from multiple appropriate sources and assess the credibility, accuracy, and possible bias of each publication and methods used, and describe how they are supported or not supported by evidence.			
85	ccc	Cause and Effect • Phenomena may have more than one cause, and some cause and effect relationships in systems can only be described using probability.			
86	CONN	Interdependence of Science, Engineering, and Technology 'Engineering advances have led to important discoveries in virtually every field of science, and scientific discoveries have led to the development of entire industries and engineered systems. Science Addresses Questions About the Natural and Material			
87	CONN	Science Addresses Questions About the Natural and Material World  - Scientific knowledge can describe the consequences of actions but does not necessarily prescribe the decisions that society lakes.			
Natural	Selection	MO LOA A Obustanta who dame at a first in			
88	PE	MS-LS4-4. Students who demonstrate understanding can: Construct an explanation based on evidence that describes how genetic variations of traits in a population increase some individuals' probability of surviving and reproducing in a specific environment.			
89	DCI	LS4.B: Natural Selection  Natural selection leads to the predominance of certain traits in a population, and the suppression of others.			
90	SEP	Constructing Explanations and Designing Solutions Constructing explanations and designing solutions in 6–8 builds on K–6 experiences and progresses to include constructing explanations and designing solutions supported by multiple sources of evidence consistent with scientific ideas, principles, and theories.  Construct an explanation that includes qualitative or quantitative relationships between variables that describe phenomena.			
91	ccc	Cause and Effect -Phenomena may have more than one cause, and some cause and effect relationships in systems can only be described using probability.			
92	PE	MS-LS4-6. Students who demonstrate understanding can: Use mathematical representations to support explanations of how natural selection may lead to increases and decreases of specific traits in populations over time.			

93	DCI	LS4.C: Adaptation Adaptation by natural selection acting over generations is one important process by which species change over time in response to changes in environmental conditions. Traits that support successful survival and reproduction in the new environment become more common; those that do not become less common.			
94	SEP	Thus, the distribution of traits in a population changes.  Using Mathematics and Computational Thinking  Mathematical and computational thinking in 6–8 builds on K–5 experiences and progresses to identifying patterns in large data sets and using mathematical concepts to support explanations			
54	SEP	and arguments.  • Use mathematical representations to support scientific conclusions and design solutions.			
95	ccc	Cause and Effect  • Phenomena may have more than one cause, and some cause and effect relationships in systems can only be described using probability.			
96	PE	MS-LS1-4. Students who demonstrate understanding can: Use argument based on empirical evidence and scientific reasoning to support an explanation for how characteristic animal behaviors and specialized plant structures affect the probability of successful reproduction of animals and plants respectively.			
97	DCI	LS1.B: Growth and Development of Organisms  • Animals engage in characteristic behaviors that increase the odds of reproduction.			
98	DCI	LS1.B: Growth and Development of Organisms  • Plants reproduce in a variety of ways, sometimes depending on animal behavior and specialized features for reproduction.			
99	SEP	Engaging in Argument from Evidence Engaging in argument from evidence in 6-8 builds on K-5 experiences and progresses to constructing a convincing argument that supports or refutes claims for either explanations or solutions about the natural and designed world(s). - Use an oral and written argument supported by empirical evidence and scientific reasoning to support or refute an explanation or a model for a phenomenon or a solution to a problem.			
100	ccc	Cause and Effect  • Phenomena may have more than one cause, and some cause and effect relationships in systems can only be described using probability.			
Commo	n Ancestry	probability.			
101	PE	MS-LS4-1. Students who demonstrate understanding can: Analyze and interpret data for patterns in the fossil record that document the existence, diversity, extinction, and change of life forms throughout the history of life on Earth under the assumption that natural laws operate today as in the past.			
102	DCI	LS4.A: Evidence of Common Ancestry and Diversity  • The collection of fossils and their placement in chronological order (e.g., through the location of the sedimentary layers in which they are found or through radioactive dating) is known as the fossil record. It documents the existence, diversity, extinction, and change of many life forms throughout the history of life on Earth.			
103	SEP	Analyzing and Interpreting Data Analyzing data in 6–8 builds on K–5 experiences and progresses to extending quantitative analysis to investigations, distinguishing between correlation and causation, and basic statistical techniques of data and error analysis.  Analyze and interpret data to determine similarities and differences in findings.			
104	CONN	Scientific Knowledge is Based on Empirical Evidence Science knowledge is based upon logical and conceptual connections between evidence and explanations.			
105	ccc	Patterns Graphs, charts, and images can be used to identify patterns in data.			
106	CONN	Scientific Knowledge Assumes an Order and Consistency in Natural Systems - Science assumes that objects and events in natural systems occur in consistent patterns that are understandable through measurement and observation.			
107	PE	MS-LS4-2. Students who demonstrate understanding can: Apply scientific ideas to construct an explanation for the anatomical similarities and differences among modern organisms and between modern and fossil organisms to infer evolutionary relationships.			
108	DCI	LS4.A: Evidence of Common Ancestry and Diversity - Anatomical similarities and differences between various organisms living today and between them and organisms in the fossil record, enable the reconstruction of evolutionary history and the inference of lines of evolutionary descent.			
109	SEP	Constructing Explanations and Designing Solutions Constructing explanations and designing solutions in 6–8 builds on K–5 experiences and progresses to include constructing explanations and designing solutions supported by multiple sources of evidence consistent with scientific ideas, principles, and theories.  Apply scientific ideas to construct an explanation for real-world phenomena, examples, or events.			
110	ccc	Patterns - Patterns can be used to identify cause and effect relationships.			
111	CONN	Scientific Knowledge Assumes an Order and Consistency in Natural Systems - Science assumes that objects and events in natural systems occur in consistent patterns that are understandable through measurement and observation.			
112	PE	MS-LS4-3. Students who demonstrate understanding can: Analyze displays of pictorial data to compare patterns of similarities in the embryological development across multiple species to identify relationships not evident in the fully formed anatomy.			
113	DCI	LS4.A: Evidence of Common Ancestry and Diversity Comparison of the embryological development of different species also reveals similarities that show relationships not evident in the fully-formed anatomy.			
114	SEP	Analyzing and Interpreting Data Analyzing data in 6-8 builds on K-5 experiences and progresses to extending quantitative analysis to investigations, distinguishing between correlation and causation, and basic statistical techniques of data and error analysis.  Analyze displays of data to identify linear and nonlinear relationships.			
			 _	 _	 

		Patterns						
115	ccc	Graphs, charts, and images can be used to identify patterns in data.						
Engine	ering Design	uata.						
116	PE	MS-ETS1-1. Students who demonstrate understanding can: Define the criteria and constraints of a design problem with sufficient precision to ensure a successful solution, taking into account relevant scientific principles and potential impacts on people and the natural environment that may limit possible solutions.						
117	DCI	ETS1.A: Defining and Delimiting Engineering Problems  • The more precisely a design task's criteria and constraints can be defined, the more likely it is that the designed solution will be successful. Specification of constraints includes consideration of scientific principles and other relevant knowledge that are likely to limit possible solutions. (MS-ETS1-1)						
118	SEP	Asking Questions and Defining Problems Asking questions and defining problems in grades 6–8 builds on grades K–5 experiences and progresses to specifying relationships between variables, and clarifying arguments and models.  Define a design problem that can be solved through the development of an object, tool, process or system and includes multiple criteria and constraints, including scientific knowledge that may limit possible solutions. (MS-ETS1-1)						
119	ccc	Influence of Science, Engineering, and Technology on Society and the Natural World  All human activity draws on natural resources and has both short and long-term consequences, positive as well as negative, for the health of people and the natural environment. (MS-ETS1-1)						
120	ccc	Influence of Science, Engineering, and Technology on Society and the Natural World  • The uses of technologies and limitations on their use are driven by individual or societal needs, desires, and values; by the findings of scientific research; and by differences in such factors as climate, natural resources, and economic conditions. (MS-ETS1-1)						
121	PE	MS-ETS1-2. Students who demonstrate understanding can: Evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints of the problem.						
122	DCI	ETS1.B: Developing Possible Solutions  There are systematic processes for evaluating solutions with respect to how well they meet the criteria and constraints of a problem. (MS-ETS1-2)						
123	SEP	Engaging in Argument from Evidence Engaging in argument from evidence in 6-8 builds on K-5 experiences and progresses to constructing a convincing argument that supports or refutes claims for either explanations or solutions about the natural and designed world.  • Evaluate competing design solutions based on jointly developed and agreed-upon design criteria. (MS-ETS1-2)						
124	PE	MS-ETS1-3. Students who demonstrate understanding can: Analyze data from tests to determine similarities and differences among several design solutions to identify the best characteristics of each that can be combined into a new solutions to better meet the criteria for success.						
125	DCI	ETS1.B: Developing Possible Solutions  • There are systematic processes for evaluating solutions with respect to how well they meet the criteria and constraints of a problem. (MS-ETS1-3)						
126	DCI	ETS1.B: Developing Possible Solutions  Sometimes parts of different solutions can be combined to create a solution that is better than any of its predecessors. (MS-ETS1-3)						
127	DCI	ETS1.C: Optimizing the Design Solution - Although one design may not perform the best across all tests, identifying the characteristics of the design that performed the best in each test can provide useful information for the redesign process—that its, some of those characteristics may be incorporated into the new design. (MS-ETS1-3)						
128	SEP	Analyzing and Interpreting Data Analyzing data in 6–8 builds on K–5 experiences and progresses to extending quantitative analysis to investigations, distinguishing between correlation and causation, and basic statistical techniques of data and error analysis.  Analyze and interpret data to determine similarities and differences in findings. (MS-ETS1-3)						
129	PE	MS-ETS1-4. Students who demonstrate understanding can: Develop a model to generate data for iterative testing and modification of a proposed object, tool, or process such that an optimal design can be achieved.						
130	DCI	ETS1.B: Developing Possible Solutions  • A solution needs to be tested, and then modified on the basis of the test results, in order to improve it. (MS-ETS1-4)  ETS1.B: Developing Possible Solutions						
131	DCI	Models of all kinds are important for testing solutions. (MS- ETS1-4)  ETS1.C: Optimizing the Design Solution						
132	DCI	The iterative process of testing the most promising solutions and modifying what is proposed on the basis of the test results leads to greater refinement and ultimately to an optimal solution. (MS-ETS1-4)						
133	SEP	Developing and Using Models Modeling in 6-8 builds on K-5 experiences and progresses to developing, using, and revising models to describe, test, and predict more abstract phenomena and design systems.  - Develop a model to generate data to test ideas about designed systems, including those representing inputs and outputs. (MS-ETS1-4)						
• NO	CCSS for ELA/Literacy and Math in Grades 6-8 NGSS  • NOTE: The standards noted at the end of each CCSS (such as  (HS-ESS1-1), (HS-ESS1-2), (HS-ESS1-5)) are the occurrences of the CCSS within the NGSS.							
	6-8 CCSS ELA/Lite							
134	CCSS ELA/ Literacy	RST.6-8.1 Cite specific textual evidence to support analysis of science and technical texts, attending to the precise details of explanations or descriptions. (MS-PS2-1), (MS-PS3-1), (MS-PS4-3), (MS-PS2-3), (MS-ES3-1), (MS-LS4-4), (MS-LS3-1), (MS-LS1-4), (MS-LS3-4), (MS-LS1-4), (MS-LS3-4), (MS-LS1-4), (MS-LS3-4), (MS						
		ETS1-3)						

135	CCSS ELA/ Literacy	RST.6-8.2 Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions. (MS-PS4-3)				
136	CCSS ELA/ Literacy	RST.6-8.3 Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.  (MS-PS2-1), (MS-PS2-2), (MS-PS2-5)				
137	CCSS ELA/ Literacy	RST.6.8.4 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.  (MS-LS3-1), (MS-LS3-2)				
138	CCSS ELA/ Literacy	RST.6-8.7 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). (MS-PS3-1), (MS-ESS1-3), (MS-LS3-1), (MS-LS3-2), (MS-LS4-1), (MS-LS4-3), (MS-ETS1-3)				
139	CCSS ELA/ Literacy	RST.6-8.9 Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic. (MS-PS4-3), (MS-LS4-4), (MS-LS4-3), (MS-ETS1-3)				
140	CCSS ELA/ Literacy	RI.6.8 Trace and evaluate the argument and specific claims in a text, distinguishing claims that are supported by reasons and evidence from claims that are not. (MS-LS1-4)				
141	CCSS ELA/ Literacy	WHST.6-8.1 Write arguments focused on discipline content.  (MS-PS2-4), (MS-LS1-4)				
142	CCSS ELA/ Literacy	WHST.6-8.2 Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content. (MS-LS4-2)				
143	CCSS ELA/ Literacy	WHSTR-8.7 Conduct short research projects to answer a question (including a self-spenated question), drawing on several sources and generating additional related, focused questions that allow for multiple avenues of exploration. (MS-PS2-1), (MS-PS2-2)				
144	CCSS ELA/ Literacy	WHST.8-8.8 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.  (MS-ETS1-1), (MS-LS4-5)				
145	CCSS ELA/ Literacy	WHST.6-8.9 Draw evidence from informational texts to support analysis, reflection, and research.				
146	CCSS ELA/ Literacy	[MS-F94-3], (MS-LS4-2), (MS-ETS1-2)  SL.8.1 Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 8 topics, texts, and issues, building on others' ideas and expressing their own clearly.  (MS-LS4-4), (MS-LS4-2)				
147	CCSS ELA/ Literacy	SL.8.4 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.  (MS-LS4-4) (MS-LS4-2)				
148	CCSS ELA/ Literacy	SL.8.5 Integrate multimedia and visual displays into presentations to clarify information, strengthen claims and evidence, and add interest.  (MS-PS4-1), (MS-PS4-2), (MS-PS3-2), (MS-ESS1-1), (MS-ESS1-				
Grades 6	6-8 CCSS Math	2), (MS-LS3-1), (MS-LS3-2), (MS-ETS1-4)				
		MP.2 Reason abstractly and quantitatively. (MS-PS2-1), (MS-PS2-2), (MS-PS3-1), (MS-PS4-1), (MS-PS2-3),				
149	CCSS Math	(MS-ESS1-3), (MS-ETS1-1), (MS-ETS1-2), (MS-ETS1-3), (MS-ETS1-4)  MP.4 Model with mathematics.				
150	CCSS Math	(MS-PS4-1), (MS-ESS1-1), (MS-ESS1-2), (MS-LS4-6), (MS-LS3- 2)				
151	CCSS Math	6.RP.A.1 Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. (MS-PS4-1), (MS-ESS1-2), (MS-ESS1-3), (MS-LS4-6), (MS-LS4-4)				
152	CCSS Math	6.RP.A.2 Understand the concept of a unit rate a/b associated with a ratio a:b with b ≠ 0, and use rate language in the context of a ratio relationship. (MS-PS3-1), (MS-ESS1-1)				
153	CCSS Math	G.RP.A.3 Use ratio and rate reasoning to solve real-world and mathematical problems.     (MS-PS4-1)				
154	CCSS Math	7.RP.A.2 Recognize and represent proportional relationships between quantities. (MS-PS3-1), (MS-PS4-1), (MS-ESS1-2), (MS-ESS1-2), (MS-ESS1-3)				
155	CCSS Math	7.RP.A.2 Recognize and represent proportional relationships between quantities. (MS-LS4-4)		 		
156	CCSS Math	6.NS.C.5 Understand that positive and negative numbers are used together to describe quantities having opposite directions or values; use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.  (MS-PS2-1)				
157	CCSS Math	6.EE.A.2 Write, read, and evaluate expressions in which letters stand for numbers.  (MS-PS2-1), (MS-PS2-2)  6.EE.B.6 Use variables to represent numbers and write				
158	CCSS Math	expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set. (MS-ESS1-2), (MS-LS4-1), (MS-LS4-2)				
159	CCSS Math	7.EE.B.3 Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies. (MS-PS2-1), (MS-PS2-2), (MS-ETS1-1), (MS-ETS1-2), (MS-ETS1-3)				
160	CCSS Math	7.EE.B.4 Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities. (MS-PS2-1), (MS-PS2-2), (MS-ESS1-2)				

161	CCSS Math	<b>8.EE.A.1</b> Know and apply the properties of integer exponents to generate equivalent numerical expressions. (MS-PS3-1)				
162	CCSS Math	8.EE.A.2 Use square root and cube root symbols to represent solutions to equations of the form x2 = p and x3 = p, where p is a positive rational number. Evaluate square roots of small perfect squares and cube roots of small perfect cubes. Know that √2 is irrational.				
163	CCSS Math	8.F.A.3 Interpret the equation y = mx + b as defining a linear function, whose graph is a straight line; give examples of functions that are not linear.  (MS-PS3-1), (MS-PS4-1)				
164	CCSS Math	6.SP.A.2 Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.  (MS-LS1-4)				
165	CCSS Math	6.SP.B.4 Display numerical data in plots on a number line, including dot plots, histograms, and box plots.     (MS-LS1-4)				
166	CCSS Math	6.SP.B.5 Summarize numerical data sets in relation to their context. (MS-LS4-6), (MS-LS4-4), (MS-LS3-2)				
167	CCSS Math	7.SP.7 Develop a probability model and use it to find probabilities of events. Compare probabilities from a model to observed frequencies; if the agreement is not good, explain possible sources of the discrepancy. (MS-ETS1-4)				

## Section 2: Science Content Review PUBLISHER/PROVIDER INSTRUCTIONS: Publisher/provider 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 publisher/provider will enter one citation per criterion (Column C). Each citation should direct the reviewer to a specific location in the materials that best meets the criterion. The citations should be concise and should allow the reviewer to easily determine that all components of the criterion have been met. Each citation should cover no more than 3 pages within the materials. o Column C: Enter one citation in Column C 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 criterion. The material will be scored for alignment with each criterion 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. Columns G-J: Using either the Teacher Edition (teacher-facing core material) OR Student Edition/Student Workbook (student-facing core material) (print and/or digital), provide a citation for each criterion that best meets the criterion and addresses all components of the criterion. Review the cited material, score the material by determining the degree to which it meets the criterion, and provide evidence from the material to support your determination: of M = Meets the criterion of P = Partially meets the criterion of D = Does not meet the criterion of Each cell in the Reviewer Citation column, Score column, and Reviewer Evidence column (columns G, H, and J) will turn purple as you Columns C-F: The publisher/provider 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 criterion. Review the cited material and score the material by determining the degree to which it the cited material and score the material by determining the degree to which it meets the criterion: o M = Meets the criterion o P = Partially meets the criterion o D = Does not meet the criterion 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 S D is not any of the dropdown pointing, each rough only only only the your your evidence statement. Reviewer directions for Science Content Review with a D is not one of the dropdown options, enter your own evidence statement score the materials n the cell in Column F. o Each cell in the Score column (column D) will turn purple as you score Criteria Grade K-12 Science Content Criteria Reviewer Citation Score Required: Reviewer's Evidence Comments, other citations, notes FOCUS AREA 1: PHENOMENA-/PROBLEM-BASED AND THREE-DIMENSIONAL APPROACH Instructional materials are centered around high quality phenomena and/or problems and require a three dimensional approach to make sense of the phenomena or to solve the problems. Materials clearly integrate and describe the three-dimensional NM STEM Ready! Standards via appropriate grade-band, interdisciplinary progressions that center around the phenomena, utilizing aligned SEPs, CCCs DCIs and the common core math and ELA standards' connections. Materials consistently support meaningful student sensemaking with the three dimensions, including discourse, that is appropriate to grade band progressions, instruction and assessment. Natural and designed phenomena and/or problems that are meaningful and apparent to students drive coherent lessons and activities in all three dimensions FOCUS AREA 2: THREE-DIMENSIONAL ASSESSMENT Assessments provide tools, guidance and support for teachers to collect, interpret and act on data about student progress toward the learning goals of the 3 dimensional standards. Materials engage students in meaningful tasks as well as multiple assessment types and opportunities, across all dimensions, in order to make sense of phenomena and/or design solutions to problems. Materials include opportunities for students to obtain feedback from teachers and peers as well as opportunities for student self-reflection. FOCUS AREA 3: TEACHER SUPPORTS Materials include opportunities for teachers to effectively plan and utilize materials. Materials provide a comprehensive list of supplies and teacher guidance needed to support instructional activities in a safe manner. Materials provide teacher guidance for the use of 7 embedded and meaningful technology to support and enhance student learning, when applicable. Materials and assessments include teacher guidance for 8 students at, approaching, or exceeding grade level expectations Materials provide teacher guidance for interpreting student evidence of learning, monitoring student progress and providing feedback to guide student learning and to modify instruction. FOCUS AREA 4: STUDENT CENTERED INSTRUCTION Materials are designed for each student's regular and active participation in science content.

10	Materials provide opportunities to engage students curiosity and participation in a way that pulls from their prior knowledge and connects their learning to relevant phenomena and problems.				
11	The flow of lessons from one unit to the next is coherent, meaningful, direct, and apparent to students.				
	AREA 5: EQUITY s are designed for all learners.				
12	Materials provide extensions and/or opportunities for all students to engage in learning grade-level/band science and engineering in greater depth.				
13	Materials and assessments are designed in an accessible manner and include multiple ways for all students to build and reflect on science knowledge; multiple ways for all students to access content (Universal Design for Learning); and multiple opportunities for student self-reflection.				

Section 2: All Content Review										
• The All from th	HER/PROVIDER INSTRUCTIONS:  Content tab will be completed solely by the reviewers. The material based on their overall review of the material. You aterial will be scored for alignment with each criterion as "Monot meet expectations".	ou will not pr	ovide any citations for this tab.							
	Reviewer directions for All Content Review:	provided bas score the mate provide evide o M = Meets o P = Partiall o D = Does n Your evidence evidence as w o Each cell is	columns C-F: The criteria presented on this tab will be scored and evidence provided based on your overall review of the materials. Review the material, score the material by determining the degree to which it meets each criterion, and provide evidence from the material to support your determination:  o M = Meets the criterion o P = Partially meets the criterion o D = Does not meet the criterion four 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. o Each cell in the Score column and the Reviewer's Evidence column (columns C and E) will turn purple as you score the materials.							
Criteria #	All Content Criteria Review	Score	Required: Reviewer's Evidence from Material	Comments, citations, notes						
Instructi	AREA 1: COHERENCE onal materials are coherent and consistent with the Ne tudents should study in order to be college- and caree		ontent Standards							
1	Instructional materials address the full content contained in the standards for all students by grade level.									
2	Instructional materials support students to show mastery of each standard.									
3	Instructional materials require students to engage at a level of maturity appropriate to the grade level under review.									
4	Instructional materials are coherent, making meaningful connections for students by linking the standards within a lesson and unit.									
	AREA 2: WELL-DESIGNED LESSONS onal materials take into account effective lesson struct	ture and pag	cing.							
5	The Teacher Edition presents learning progressions to provide an overview of the scope and sequence of skills and concepts. The design of the assignments shows a purposeful sequencing of teaching and learning expectations.									
6	Within each lesson of the instructional materials, there are clear, measurable, standards-aligned content objectives.									
7	Within each lesson of the instructional materials, there are clear, measurable language objectives tied directly to the content objectives.									
8	Instructional materials provide focused resources to support students' acquisition of both general academic vocabulary and content-specific vocabulary.									
9	The visual design of the instructional materials (whether in print or digital) maintains a consistent layout that supports student engagement with the subject.									
10	Instructional materials incorporate features that aid students and teachers in making meaning of the text.									
11	Instructional materials provide students with ongoing review and practice for the purpose of retaining previously acquired knowledge.									
Instructi	AREA 3: RESOURCES FOR PLANNING onal materials provide teacher resources to support pl erstanding of the New Mexico Content Standards.	anning, leaı	rning,							
12	Instructional materials provide a list of lessons in the Teacher Edition (in print or clearly distinguished/ accessible as a teacher's edition in digital materials), cross-referencing the standards addressed and providing an estimated instructional time for each lesson, chapter, and unit.									
13	Instructional materials support teachers with instructional strategies to help guide students' academic development.									
14	Instructional materials include a teacher edition/ teacher- facing material with useful annotations and suggestions on how to present the content in the student edition/student-facing material and in the supporting material.									

15	Instructional materials integrate opportunities for digital learning, including interactive digital components.					
	AREA 4: ASSESSMENT					
	ional materials offer teachers a variety of assessment r ct ongoing data about student progress related to the s		ind tools			
16	Instructional materials provide a variety of assessments that measure student progress in all strands of the standards for the content under review.  (Adopted New Mexico Content Standards for 2024: NM					
17	Instructional materials provide multiple formative and summative assessments, clearly defining which standards are being assessed through content and language objectives.					
18	Instructional materials provide scoring guides for assessments that are aligned with the standards they address, and that offer teachers guidance in interpreting student performance and suggestions for further instruction, differentiation, remediation and/or acceleration.					
19	Instructional materials provide appropriate assessment alternatives for English Learners, Culturally and Linguistically Diverse students, advanced students, and special needs students.					
20	Instructional materials include opportunities to assess student understanding and knowledge of the standards using technology.					
FOCUS AREA 5: EXTENSIVE SUPPORT Instructional materials give all students extensive opportunities and support to explore key concepts.						
21	Instructional materials can be customized or adapted to	s and supp	ort to explore key concepts.			
22	meet the needs of different student populations.  Instructional materials provide differentiated strategies and/or activities to meet the needs of students working below proficiency and those of advanced learners.					
23	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.					
24	Instructional materials provide strategies and resources for teachers to inform and engage parents, family members, and caregivers of all learners about the program and provide suggestions for how they can help support student progress and achievement.					
25	Instructional materials include opportunities for all students that encourage and support critical and creative thinking, inquiry, and complex problem-solving skills.					
	AREA 6: CULTURAL AND LINGUISTIC PERSPECTIVES ional materials represent a variety of cultural and lingui	stic perspe	ectives.			
26	Instructional materials inform culturally and linguistically responsive pedagogy by affirming students' backgrounds in the materials themselves and in the student discussions.					
27	Instructional materials provide a collection of images, stories, and information, representing a broad range of demographic groups, and do not make generalizations or reinforce stereotypes.					
28	Instructional materials provide context, illustrations, and activities for students to make interdisciplinary connections and/or connections to real-life experiences and diverse cultural and linguistic backgrounds.					
FOCUS AREA 7: INCLUSION OF CULTURALLY AND LINGUISTICALLY RESPONSIVE LENS Instructional materials highlight diversity in culture and language through multiple perspectives.						
29	Instructional materials include tools and resources to relate the content area appropriately to diversity in culture and language.	<u> </u>				
30	Instructional materials include tools and resources that demonstrate multiple perspectives in a specific concept.					

31	Instructional materials engage students in critical reflection about their own lives and societies, including cultures past and present in New Mexico.		
32	Instructional materials address multiple ethnic descriptions, interpretations, or perspectives of events and experiences.		