



F.6 Earth and Space Science - Grades 6-8

PUBLISHER/PROVIDER MATERIAL INFORMATION (TO BE COMPLETED BY PUBLISHER/PROVIDER)

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Title of Teacher Edition:	Inspire Science Earth & Space Teacher Edition Bundle (Unit 1-4)	Teacher Edition ISBN:	9780076883134
Title of SE Workbook:		SE Workbook ISBN:	

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Citation Video Link:	
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Section 1: Standards Review: Science

Abbreviations for the Form F Standards Review Tab:

- PE: Performance Expectation
- DCI: Disciplinary Core Idea
- SEP: Science and Engineering Practices
- CCC: Crosscutting Concepts
- CONN: Connections
- NM: NM STEM Ready Standard
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Earth's Place in the Universe

1	PE	MS-ESS1-1. Students who demonstrate understanding can: 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.							
2	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.	Unit 1, Module 1 TE pp. 12,31,32						
3	DCI	ESS1.B: Earth and the Solar System • 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.	Unit 1, Module 1 TE pp. 19,49,51						
4	SEP	Developing and Using Models <i>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.</i> • Develop and use a model to describe phenomena.	Unit 1, Module 1 TE pp. 61,63, 64						
5	CCC	Patterns • Patterns can be used to identify cause-and-effect relationships.	Unit 1, Module 1 TE pp. 15,33,36						
6	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.	Unit 1, Module 1 TE p. 10 (observe a model/pattern of day and night) p. 13 (observations of the intensity of sunlight on different areas of Earth) p. 34 (observation to explain the patterns of the phases of the moon.						
7	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.							
8	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.	Unit 1, Module 2 TE p. 74, 113, 119						
9	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.	Unit 1, Module 2 TE p. 78, 84						

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10	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.	Unit 1, Module 2 TE p. 80, 82, 86						
11	SEP	Developing and Using Models <i>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.</i> • Develop and use a model to describe phenomena.	Unit 1, Module 2 TE p. 88, 101, 104						
12	CCC	Systems and System Models • Models can be used to represent systems and their interactions.	Unit 1, Module 2 TE p. 79, 116, 119						
13	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.	Unit 1, Module 2 TE p. 117 (green tab)						
14	PE	MS-ESS1-3. Students who demonstrate understanding can: Analyze and interpret data to determine scale properties of objects in the solar system.							
15	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.	Unit 1, Module 2 TE p.,108						
16	SEP	Analyzing and Interpreting Data <i>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.</i> • Analyze and interpret data to determine similarities and differences in findings.	Unit 1, Module 1 TE pp. 34, 38 Unit 1, Module 2 TE p. 106						
17	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.	Unit 1, Module 1 TE pp. 65,69 Unit 1, Module 2 TE p. 114						
18	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.	Unit 1, Module 2 pp. 96, 118						
19	PE	MS-ESS1-4. Students who demonstrate understanding can: Construct a scientific explanation based on evidence from rock strata for how the geologic time scale is used to organize Earth's 4.6-billion-year-old history.							

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20	DCI	ESS1.C: The History of Planet Earth • The geologic time scale interpreted from rock strata provides a way to organize Earth's history. Analyses of rock strata and the fossil record provide only relative dates, not an absolute scale.	Unit 4, Module 1 TE pp. 19, 34, 40						
21	SEP	Constructing Explanations and Designing Solutions <i>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.</i> • Construct a scientific explanation based on valid and reliable evidence obtained from sources (including the students' own experiments) and the assumption that theories and laws that describe the natural world operate today as they did in the past and will continue to do so in the future.	Unit 4, Module 1 TE pp. 9, 20, 31						
22	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.	Unit 4, Module 1 TE pp. 13, 44, 52						
Earth's Systems									
23	PE	MS-ESS2-1. Students who demonstrate understanding can: Develop a model to describe the cycling of Earth's materials and the flow of energy that drives this process.							
24	DCI	ESS2.A: Earth's Materials and Systems • All Earth processes are the result of energy flowing and matter cycling within and among the planet's systems. This energy is derived from the sun and Earth's hot interior. The energy that flows and matter that cycles produce chemical and physical changes in Earth's materials and living organisms.	Unit 4, Module 2 TE pp. 134, 139, 156						
25	SEP	Developing and Using Models <i>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.</i> • Develop and use a model to describe phenomena.	Unit 4, Module 2 TE pp.112, 124, 129						
26	CCC	Stability and Change • Explanations of stability and change in natural or designed systems can be constructed by examining the changes over time and processes at different scales, including the atomic scale.	Unit 4, Module 2 TE pp. 110, 125, 165						
27	PE	MS-ESS2-2. Students who demonstrate understanding can: Construct an explanation based on evidence for how geoscience processes have changed Earth's surface at varying time and spatial scales.							

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28	DCI	ESS2.A: Earth's Materials and Systems • The planet's systems interact over scales that range from microscopic to global in size, and they operate over fractions of a second to billions of years. These interactions have shaped Earth's history and will determine its future.	Unit 4, Module 2 TE pp. 102, 104, 105						
29	DCI	ESS2.C: The Roles of Water in Earth's Surface Processes • Water's movements—both on the land and underground—cause weathering and erosion, which change the land's surface features and create underground formations.	Unit 4, Module 2, TE pp. 126, 133, 142						
30	SEP	Constructing Explanations and Designing Solutions <i>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 knowledge, principles, and theories.</i> • Construct a scientific explanation based on valid and reliable evidence obtained from sources (including the students' own experiments) and the assumption that theories and laws that describe the natural world operate today as they did in the past and will continue to do so in the future.	Unit 4, Module 2 TE pp. 65, 103, 106						
31	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.	Unit 4, Module 2 TE pp. 100, 135, 138						
32	PE	MS-ESS2-3. Students who demonstrate understanding can: Analyze and interpret data on the distribution of fossils and rocks, continental shapes, and seafloor structures to provide evidence of the past plate motions.							
33	DCI	ESS1.C: The History of Planet Earth • Tectonic processes continually generate new ocean sea floor at ridges and destroy old sea floor at trenches.	Unit 4, Module 2 TE pp. 87, 90, 178						
34	DCI	ESS2.B: Plate Tectonics and Large-Scale System Interactions • Maps of ancient land and water patterns, based on investigations of rocks and fossils, make clear how Earth's plates have moved great distances, collided, and spread apart.	Unit 4, Module 2 TE pp. 62, 63, 67						
35	SEP	Analyzing and Interpreting Data <i>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.</i> • Analyze and interpret data to provide evidence for phenomena.	Unit 4, Module 2 TE pp. 64, 81, 82						
36	CONN	Scientific Knowledge is Open to Revision in Light of New Evidence • Science findings are frequently revised and/or reinterpreted based on new evidence.	Unit 4, Module 2 TE pp. 83, 86 (Blue Box)						

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37	CCC	Patterns • Patterns in rates of change and other numerical relationships can provide information about natural systems.	Unit 4, Module 2 TE p. 84						
38	PE	MS-ESS2-4. Students who demonstrate understanding can: Develop a model to describe the cycling of water through Earth's systems driven by energy from the sun and the force of gravity.							
39	DCI	ESS2.C: The Roles of Water in Earth's Surface Processes • Water continually cycles among land, ocean, and atmosphere via transpiration, evaporation, condensation and crystallization, and precipitation, as well as downhill flows on land.	Unit 2, Module 1 TE p. 34						
40	DCI	ESS2.C: The Roles of Water in Earth's Surface Processes • Global movements of water and its changes in form are propelled by sunlight and gravity.	Unit 2, Module 1 TE pp. 11, 16, 35						
41	SEP	Developing and Using Models <i>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.</i> • Develop a model to describe unobservable mechanisms.	Unit 2, Module 1 TE pp. 15, 18, 20						
42	CCC	Energy and Matter • Within a natural or designed system, the transfer of energy drives the motion and/or cycling of matter.	Unit 2, Module 1 TE pp. 12, 13, 17						
43	PE	MS-ESS2-5. Students who demonstrate understanding can: Collect data to provide evidence for how the motions and complex interactions of air masses results in changes in weather conditions.							
44	DCI	ESS2.C: The Roles of Water in Earth's Surface Processes • The complex patterns of the changes and the movement of water in the atmosphere, determined by winds, landforms, and ocean temperatures and currents, are major determinants of local weather patterns.	Unit 2, Module 2 TE pp.104, 106, 118						
45	DCI	ESS2.D: Weather and Climate • Because these patterns are so complex, weather can only be predicted probabilistically.	Unit 2, Module 2 TE pp.119, 123						
46	SEP	Planning and Carrying Out Investigations <i>Planning and carrying out investigations in 6-8 builds on K-5 experiences and progresses to include investigations that use multiple variables and provide evidence to support explanations or solutions.</i> • Collect data to produce data to serve as the basis for evidence to answer scientific questions or test design solutions under a range of conditions.	Unit 2, Module 2 TE p. 157						
47	CCC	Cause and Effect • Cause and effect relationships may be used to predict phenomena in natural or designed systems.	Unit 2, Module 2 TE pp. 113,116, 140						

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48	PE	MS-ESS2-6. Students who demonstrate understanding can: Develop and use a model to describe how unequal heating and rotation of the Earth cause patterns of atmospheric and oceanic circulation that determine regional climates.							
49	DCI	ESS2.C: The Roles of Water in Earth's Surface Processes • Variations in density due to variations in temperature and salinity drive a global pattern of interconnected ocean currents.	Unit 2, Module 2 TE pp. 107,109,139						
50	DCI	ESS2.D: Weather and Climate • Weather and climate are influenced by interactions involving sunlight, the ocean, the atmosphere, ice, landforms, and living things. These interactions vary with latitude, altitude, and local and regional geography, all of which can affect oceanic and atmospheric flow patterns.	Unit 2, Module 2 TE pp. 56, 58, 80						
51	DCI	ESS2.D: Weather and Climate • The ocean exerts a major influence on weather and climate by absorbing energy from the sun, releasing it over time, and globally redistributing it through ocean currents.	Unit 2, Module 2 TE pp. 89,92,143						
52	SEP	Developing and Using Models <i>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.</i> • Develop and use a model to describe phenomena.	Unit 2, Module 2 TE pp. 54, 59, 150						
53	CCC	Systems and System Models • Models can be used to represent systems and their interactions—such as inputs, processes and outputs—and energy, matter, and information flows within systems.	Unit 2, Module 2 TE pp. 52, 57, 106						

Earth and Human Activity

54	PE	MS-ESS3-1. Students who demonstrate understanding can: Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.							
55	DCI	ESS3.A: Natural Resources • Humans depend on Earth's land, ocean, atmosphere, and biosphere for many different resources. Minerals, fresh water, and biosphere resources are limited, and many are not renewable or replaceable over human lifetimes. These resources are distributed unevenly around the planet as a result of past geologic processes.	Unit 4, Module 3 TE pp. 192, 194, 199						

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56	SEP	Constructing Explanations and Designing Solutions <i>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.</i> • Construct a scientific explanation based on valid and reliable evidence obtained from sources (including the students' own experiments) and the assumption that theories and laws that describe the natural world operate today as they did in the past and will continue to do so in the future.	Unit 4, Module 3 TE p. 191						
57	CCC	Cause and Effect • Cause and effect relationships may be used to predict phenomena in natural or designed systems.	Unit 4, Module 3 TE p. 229						
58	CONN	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.	Unit 4, Module 3 TE pp. 192, 201, 245						
59	PE	MS-ESS3-2. Students who demonstrate understanding can: Analyze and interpret data on natural hazards to forecast future catastrophic events and inform the development of technologies to mitigate their effects.							
60	DCI	ESS3.B: Natural Hazards • Mapping the history of natural hazards in a region, combined with an understanding of related geologic forces can help forecast the locations and likelihoods of future events.	Unit 4, Module 4 TE pp. 270, 283, 285						
61	SEP	Analyzing and Interpreting Data <i>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 and error analysis.</i> • Analyze and interpret data to determine similarities and differences in findings.	Unit 4, Module 4 TE pp. 272, 278, 286						
62	CCC	Patterns • Graphs, charts, and images can be used to identify patterns in data.	Unit 4, Module 4 TE pp. 277, 282, 288						
63	CONN	Influence of Science, Engineering, and Technology on Society and the Natural World • The uses of technologies and any 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. Thus technology use varies from region to region and over time.	Unit 4, Module 4 TE pp. 290, 291						

Section 1: Standards Review: Science

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64	PE	MS-ESS3-3. Students who demonstrate understanding can: Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.							
65	DCI	ESS3.C: Human Impacts on Earth Systems • Human activities have significantly altered the biosphere, sometimes damaging or destroying natural habitats and causing the extinction of other species. But changes to Earth's environments can have different impacts (negative and positive) for different living things.	Unit 3, Module 1 TE pp. 17, 45, 49						
66	DCI	ESS3.C: Human Impacts on Earth Systems • Typically as human populations and per-capita consumption of natural resources increase, so do the negative impacts on Earth unless the activities and technologies involved are engineered otherwise.	Unit 3, Module 2 TE pp. 126-128						
67	SEP	Constructing Explanations and Designing Solutions <i>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.</i> • Apply scientific principles to design an object, tool, process or system.	Unit 3, Module 1 TE pp. 9, 37, 63						
68	CCC	Cause and Effect • Relationships can be classified as causal or correlational, and correlation does not necessarily imply causation.	Unit 3, Module 1 TE pp. 18, 29, 64						
69	CONN	Influence of Science, Engineering, and Technology on Society and the Natural World • The uses of technologies and any 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. Thus technology use varies from region to region and over time.	Unit 3, Module 1 TE pp. 53, 71, 100						
70	NM	MS-ESS3-3 NM: • Describe the advantages and disadvantages associated with technologies related to local industries and energy production	Unit 3, Module 1 TE p. 75 (Reading Connections)						
71	PE	MS-ESS3-4. Students who demonstrate understanding can: Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.							
72	DCI	ESS3.C: Human Impacts on Earth Systems • Typically as human populations and per-capita consumption of natural resources increase, so do the negative impacts on Earth unless the activities and technologies involved are engineered otherwise.	Unit 3, Module 2 TE pp. 131-32, 142						

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73	SEP	Engaging in Argument from Evidence <i>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).</i> • Construct 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.	Unit 3, Module 1 TE p. 42 (Three Dimensional Learning) p. 75 (Writing Connection #4)						
74	CCC	Cause and Effect • Cause and effect relationships may be used to predict phenomena in natural or designed systems.	Unit 3, Module 2 TE pp. 122, 132, 142						
75	CONN	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.	Unit 3, Module 2 TE pp. 143 and 145						
76	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 takes.	Unit 3, Module 2 TE pp. 146 and 148						
77	PE	MS-ESS3-5. Students who demonstrate understanding can: Ask questions to clarify evidence of the factors that have caused the rise in global temperatures over the past century.							
78	DCI	ESS3.D: Global Climate Change • Human activities, such as the release of greenhouse gases from burning fossil fuels, are major factors in the current rise in Earth's mean surface temperature (global warming). Reducing the level of climate change and reducing human vulnerability to whatever climate changes do occur depend on the understanding of climate science, engineering capabilities, and other kinds of knowledge, such as understanding of human behavior and on applying that knowledge wisely in decisions and activities.	Unit 3, Module 1 TE pp. 85, 90, 101						
79	SEP	Asking Questions and Defining Problems <i>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.</i> • Ask questions to identify and clarify evidence of an argument.	Unit 3, Module 1 TE pp. 81 and 100						
80	CCC	Stability and Change • Stability might be disturbed either by sudden events or gradual changes that accumulate over time.	Unit 3, Module 1 TE pp. 88, 92, 94						

Engineering Design:

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81	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.							
82	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)	Unit 3, Module 1 TE p. 54						
83	SEP	Asking Questions and Defining Problems <i>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.</i> • 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)	Unit 3, Module 1 TE p. 108						
84	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)	Unit 3, Module 2 TE pp. 143, 145, 146						
85	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)	Unit 3, Module 1 TE pp. 71 and 75						
86	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.							
87	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)	Unit 3, Module 1 TE pp. 54, 75						

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88	SEP	Engaging in Argument from Evidence <i>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.</i> • Evaluate competing design solutions based on jointly developed and agreed-upon design criteria. (MS-ETS1-2)	Unit 3, Module 1 TE p. 42						
89	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.							
90	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)	Unit 3, Module 1 TE pp. 27						
91	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)	Unit 3, Module 1 TE p. 26						
92	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 is, some of those characteristics may be incorporated into the new design. (MS-ETS1-3)	Unit 3, Module 1 TE p. 28						
93	SEP	Analyzing and Interpreting Data <i>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.</i> • Analyze and interpret data to determine similarities and differences in findings. (MS-ETS1-3)	Unit 3, Module 1 TE p. 12						
94	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.							
95	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)	Science and Engineering Handbook (Online) pp. 26,27						
96	DCI	ETS1.B: Developing Possible Solutions • Models of all kinds are important for testing solutions. (MS-ETS1-4)	Science and Engineering Handbook (Online) pp. 29, 30						

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97	DCI	ETS1.C: Optimizing the Design Solution • 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)	Science and Engineering Handbook (Online) p. 28						
98	SEP	Developing and Using Models <i>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.</i> • Develop a model to generate data to test ideas about designed systems, including those representing inputs and outputs. (MS-ETS1-4)	Science and Engineering Handbook (Online) p. 21						

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.**

Grades 6-8 CCSS ELA/Literacy

99	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-ESS1-3), (MS-ESS1-4), (MS-ESS2-2), (MS-ESS2-3), (MS-ESS2-5), (MS-ESS3-1), (MS-ESS3-2), (MS-ESS3-4), (MS-ESS3-5), (MS-ETS1-1), (MS-ETS1-2), (MS-ETS1-3)	Unit 1, Module 1 TE p. 45 (Reading Connection)						
100	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-ESS1-3), (MS-ESS2-3), (MS-ESS3-2), (MS-ETS1-3)	Unit 1, Module 1 TE pp. 14, 17, 52 (Visual Literacy)						
101	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-ETS1-2), (MS-ETS1-3)	Unit 1, Module 1 TE p. 36 (Visual Literacy) Unit 1, Module 1 TE p. 19 (Find Evidence)						
102	CCSS ELA/Literacy	WHST.6-8.1 Write arguments focused on discipline content. (MS-ESS3-4)	Unit 3, Module 2 TE pp. 120, 158						
103	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-ESS1-4), (MS-ESS2-2)	Unit 3, Module 1 TE p. 41 (Writing Connection)						

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		Grades 6-8 Earth and Space Science Standards Review:							
104	CCSS ELA/Literacy	WHST.6-8.7 Conduct short research projects to answer a question (including a self-generated question), drawing on several sources and generating additional related, focused questions that allow for multiple avenues of exploration. <i>(MS-ESS3-3), (MS-ETS1-2)</i>	Unit 3, Module 1 TE p. 48 (It's Your Turn-Research)						
105	CCSS ELA/Literacy	WHST.6-8.8 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. <i>(MS-ESS2-5), (MS-ESS3-3), (MS-ETS1-1)</i>	Unit 3, Module 1 TE p. 100 (Reading Connection)						
106	CCSS ELA/Literacy	WHST.6-8.9 Draw evidence from informational texts to support analysis, reflection, and research. <i>(MS-ESS3-1), (MS-ESS3-4), (MS-ETS1-2)</i>	Unit 3, Module 1 TE p. 52 (It's Your Turn-Research and Report)						
107	CCSS ELA/Literacy	SL.8.5 Integrate multimedia and visual displays into presentations to clarify information, strengthen claims and evidence, and add interest. <i>(MS-ESS1-1), (MS-ESS1-2), (MS-ESS2-1), (MS-ESS2-2), (MS-ESS2-6), (MS-ETS1-4)</i>	Unit 1, Model 1 TE p. 37 (It's Your Turn-Write)						
Grades 6-8 CCSS Math									
108	CCSS Math	MP.2 Reason abstractly and quantitatively. <i>(MS-ESS1-3), (MS-ESS2-2), (MS-ESS2-3), (MS-ESS2-5), (MS-ESS3-2), (MS-ESS3-5), (MS-ETS1-1), (MS-ETS1-2), (MS-ETS1-3), (MS-ETS1-4)</i>	Unit 2, Module 2 TE p. 117 (Math Connection)						
109	CCSS Math	MP.4 Model with mathematics. <i>(MS-ESS1-1), (MS-ESS1-2)</i>	Unit 1, Module 2 TE p. 99 (Guide the Investigation) TE p. 102 (Math Connection)						
110	CCSS Math	6.RP.A.1 Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. <i>(MS-ESS1-1), (MS-ESS1-2), (MS-ESS1-3), (MS-ESS3-3), (MS-ESS3-4)</i>	Unit 1, Module 2 TE p. 101 (Math Connection)						
111	CCSS Math	7.RP.A.2 Recognize and represent proportional relationships between quantities. <i>(MS-ESS1-1), (MS-ESS1-2), (MS-ESS1-3), (MS-ESS3-3), (MS-ESS3-4)</i>	Unit 4, Module 2 TE p. 130 (Math Connection)						

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- SEP: Science and Engineering Practices
- CCC: Crosscutting Concepts
- CONN: Connections
- NM: NM STEM Ready Standard
- 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 INSTRUCTIONS:

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- 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 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. 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.**

Criteria #	Standard Identifier	F.6 Grades 6-8 Earth and Space Science Standards Review:	Publisher/Provider Citation from Teacher Edition	Score	If Scored D: Reviewer's Evidence for Publisher Citation	Reviewer Citation from Student Edition/Workbook	Score	Required: Reviewer's Evidence	Comments, other citations, notes
112	CCSS Math	6.NS.C.5 Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e. g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation. <i>(MS-ESS2-5)</i>	Unit 3, Module 1 TE p. 94 (Math Connection)						
113	CCSS Math	6.EE.B.6 Use variables to represent numbers and write 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. <i>(MS-ESS1-2), (MS-ESS1-4), (MS-ESS2-2), (MS-ESS2-3), (MS-ESS3-1), (MS-ESS3-2), (MS-ESS3-3), (MS-ESS3-4), (MS-ESS3-5)</i>	Unit 4, Module 2 TE p. 87, 91 (Math Connection)						
114	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. <i>(MS-ETS1-1), (MS-ETS1-2), (MS-ETS1-3)</i>	Unit 3, Module 1 TE pp. 13, 44, 57 (Math Connection)						
115	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. <i>(MS-ESS1-2), (MS-ESS1-4), (MS-ESS2-2), (MS-ESS2-3), (MS-ESS3-1), (MS-ESS3-2), (MS-ESS3-3), (MS-ESS3-4), (MS-ESS3-5)</i>	Unit 3, Module 1 TE p. 90 (Math Connection)						
116	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. <i>(MS-ETS1-4)</i>	Math Skills Handbook (Online) p. 16						

Section 2: Science Content Review

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 - 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.**

Criteria #	Grade K-12 Science Content Criteria	Publisher/Provider Citation	Score	If Scored D: Reviewer's Evidence for Publisher Citation	Reviewer Citation	Score	Required: Reviewer's Evidence	Comments, other citations, notes
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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.

1	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.	Unit 1, Module 1 TE pp. 6A-7						
2	Materials consistently support meaningful student sensemaking with the three dimensions, including discourse, that is appropriate to grade band progressions, instruction and assessment.	Unit 1, Module 2 TE p. 79						
3	Natural and designed phenomena and/or problems that are meaningful and apparent to students drive coherent lessons and activities in all three dimensions.	Unit 1, Module 2 TE pp. 74-76						

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.

4	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.	Unit 2, Module 1 TE pp. 40-42						
5	Materials include opportunities for students to obtain feedback from teachers and peers as well as opportunities for student self-reflection.	Unit 2, Module 1 TE p. 15						

FOCUS AREA 3: TEACHER SUPPORTS
Materials include opportunities for teachers to effectively plan and utilize materials.

6	Materials provide a comprehensive list of supplies and teacher guidance needed to support instructional activities in a safe manner.	Unit 2, Module 1 TE pp. 2i, 2j						
7	Materials provide teacher guidance for the use of embedded and meaningful technology to support and enhance student learning, when applicable.	Unit 2, Module 1 TE p. 35						
8	Materials and assessments include teacher guidance for students at, approaching, or exceeding grade level expectations.	Unit 2, Module 1 TE p. 2k						
9	Materials provide teacher guidance for interpreting student evidence of learning, monitoring student progress and providing feedback to guide student learning and to modify instruction.	Unit 2, Module 1 TE pp. 37-38						

Section 2: Science Content Review								
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Criteria #	Grade K-12 Science Content Criteria	Publisher/Provider Citation	Score	If Scored D: Reviewer's Evidence for Publisher Citation	Reviewer Citation	Score	Required: Reviewer's Evidence	Comments, other citations, notes
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.	Unit 4, Module 2 SE pp. 55-56						
11	The flow of lessons from one unit to the next is coherent, meaningful, direct, and apparent to students.	Unit 4, Modules 1 and 2 SE pp. 4 and 56						
FOCUS AREA 5: EQUITY								
Materials 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.	Unit 3, Module 1 TE pp. 12 and 15						
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.	Unit 3, Module 1 TE pp. 30-32 The textbook and all ancillaries are available online and in print.						

Section 2: All Content Review				
PUBLISHER/PROVIDER INSTRUCTIONS:				
<ul style="list-style-type: none"> • 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. • The material will be scored for alignment with each criterion as “Meets expectations”, “Partially meets expectations”, or “Does not meet expectations”. 				
Criteria #	All Content Criteria Review	Score	Required: Reviewer's Evidence from Material	Comments, citations, notes
FOCUS AREA 1: COHERENCE				
Instructional materials are coherent and consistent with the New Mexico Content Standards that all students should study in order to be college- and career-ready.				
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.			
FOCUS AREA 2: WELL-DESIGNED LESSONS				
Instructional materials take into account effective lesson structure and pacing.				
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.			

Section 2: All Content Review

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Criteria #	All Content Criteria Review	Score	Required: Reviewer's Evidence from Material	Comments, citations, notes
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.			

FOCUS AREA 3: RESOURCES FOR PLANNING
Instructional materials provide teacher resources to support planning, learning, and understanding of the New Mexico Content Standards.

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.			

FOCUS AREA 4: ASSESSMENT
Instructional materials offer teachers a variety of assessment resources and tools to collect ongoing data about student progress related to the standards.

16	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 2024: NM STEM Ready Science Standards)</i>			
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Criteria #	All Content Criteria Review	Score	Required: Reviewer's Evidence from Material	Comments, citations, notes
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 meet the needs of different student populations.			
22	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.			

Section 2: All Content Review

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Criteria #	All Content Criteria Review	Score	Required: Reviewer's Evidence from Material	Comments, citations, notes
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.			

FOCUS AREA 6: CULTURAL AND LINGUISTIC PERSPECTIVES
Instructional materials represent a variety of cultural and linguistic perspectives.

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.			
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.			

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Criteria #	All Content Criteria Review	Score	Required: Reviewer's Evidence from Material	Comments, citations, notes
32	Instructional materials address multiple ethnic descriptions, interpretations, or perspectives of events and experiences.			