Instructional Materials Criterion Form
Sixth Grade Science Standards

Students will:

6-1: Create and manipulate models (e.g., physical, graphical, conceptual) to explain the occurrences of day/night cycles, length of year, seasons, tides, eclipses, and lunar phases based on patterns of the observed motions of celestial bodies.

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4. Materials focus on an integration of SEP's **and** CCC's into the in-depth learning of the DCI.					
5. Learning experiences fit together coherently and help students develop proficiency on this standard.					
6. Learning opportunities include instructional strategies that facilitate three-dimensional learning in an integrated fashion to support making sense of phenomena and/or designing solutions to problems through inquiry and engineering design experiences.					
7. Integrates engineering and technology as significant elements in the learning experiences.					
8. Provides relevant grade-appropriate connections to the math and ELA standards. □ (a) Math Standards Connections Visible □ (b) ELA Standards Connections Visible					
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11. Adheres to safety rules and emphasizes the importance of safety in science procedures, labs, and experiments.					
STEP 1: Tabulate the total points for each column. Add column totals and transfer to compilation form					

Documentation of how the standard is met. Cite examples from the material (chapter and page numbers OR module and tab name)
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Instructional Materials Criterion Form
Sixth Grade Science Standards

Students will:

6- 2: Construct models and use simulations (e.g., diagrams of the relationship between Earth and man-made satellites, rocket launch, International Space Station, elliptical orbits, black holes, life cycles of stars, orbital periods of objects within the solar system, astronomical units and light years) to explain the role of gravity in affecting the motions of celestial bodies (e.g., planets, moons, comets, asteroids, meteors) within galaxies and the solar system.

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Instructional Materials Criterion Form
Sixth Grade Science Standards

Students will:

6-3: Develop and use models to determine scale properties of objects in the solar system (e.g., scale model representing sizes and distances of the sun, Earth, moon system based on a one-meter diameter sun).					
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Instructional Materials Criterion Form
Sixth Grade Science Standards

Students will:

6-4: Construct explanations from geologic evidence (e.g., change or extinction of particular living organisms; field evidence or representations, including models of geologic cross-sections; sedimentary layering) to identify patterns of Earth's major historical events (e.g., formation of mountain chains and ocean basins, significant volcanic eruptions, fossilization, folding, faulting, igneous intrusion, erosion).

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Instructional Materials Criterion Form
Sixth Grade Science Standards

Students will:

6-5: Use evidence to explain how different geologic processes shape Earth's history over widely varying scales of space and time (e.g., chemical and physical erosion; tectonic plate processes; volcanic eruptions; meteor impacts; regional geographical features, including Alabama fault lines, Rickwood Caverns, and Wetumpka Impact Crater).

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Instructional Materials Criterion Form
Sixth Grade Science Standards

Students will:

6-6: Provide evidence from data of the distribution of fossils and rocks, continental shapes, and seafloor structures to explain past plate motions.

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Instructional Materials Criterion Form
Sixth Grade Science Standards

Students will:

6-7: Use models to construct explanations of the various biogeochemical cycles of Earth (e.g., water, carbon, nitrogen) and the flow of energy that drives these processes.

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Instructional Materials Criterion Form
Sixth Grade Science Standards

Students will:

6-8: Plan and carry out investigations that demonstrate the chemical and physical processes that form rocks and cycle Earth materials (e.g., processes of crystallization, heating and cooling, weathering, deformation, and sedimentation).

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Instructional Materials Criterion Form
Sixth Grade Science Standards

Students will:

6-9: Use models to explain how the flow of Earth's internal energy drives a cycling of matter between Earth's surface and deep interior causing plate movements (e.g., mid-ocean ridges, ocean trenches, volcanoes, earthquakes, mountains, rift valleys, volcanic islands).

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Instructional Materials Criterion Form
Sixth Grade Science Standards

Students will:

6-10: Use research-based evidence to propose a scientific explanation regarding how the distribution of Earth's resources such as minerals, fossil fuels, and groundwater are the result of ongoing geoscience processes (e.g., past volcanic and hydrothermal activity, burial of organic sediments, active weathering of rock).					
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Instructional Materials Criterion Form
Sixth Grade Science Standards

Students will:

6-11: Develop and use models of Earth's interior composition to illustrate the resulting magnetic field (e.g., magnetic poles) and to explain its measureable effects (e.g., protection from cosmic radiation).					
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Instructional Materials Criterion Form
Sixth Grade Science Standards

Students will:

6-12: Integrate qualitative scientific and technical information (e.g., weather maps; diagrams; other visualizations, including radar and computer simulations) to support the claim that motions and complex interactions of air masses result in changes in weather conditions.

a. Use various instruments (e.g., thermometers, barometers, anemometers, wet bulbs) to monitor local weather and examine weather patterns to predict various weather events, especially the impact of severe weather (e.g., fronts, hurricanes, tornados, blizzards, ice storms, droughts).

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Instructional Materials Criterion Form
Sixth Grade Science Standards

Students will:

6-13: Use models (e.g., diagrams, maps, globes, digital representations) to explain how the rotation of Earth and unequal heating of its surface create patterns of atmospheric and oceanic circulation that determine regional climates. a. Use experiments to investigate how energy from the sun is distributed between Earth's surface and its atmosphere by convection and radiation (e.g., warmer water in a pan rising as cooler water sinks, warming one's hands by a campfire).

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Instructional Materials Criterion Form
Sixth Grade Science Standards

Students will:

6-14: Analyze and interpret data (e.g., tables, graphs, maps of global and regional temperatures; atmospheric levels of gases such as carbon dioxide and methane; rates of human activities) to describe how various human activities (e.g., use of fossil fuels, creation of urban heat islands, agricultural practices) and natural processes (e.g., solar radiation, greenhouse effect, volcanic activity) may cause changes in local and global temperatures over time.

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Instructional Materials Criterion Form
Sixth Grade Science Standards

Students will:

6-15: Analyze evidence (e.g., databases on human populations, rates of consumption of food and other natural resources) to explain how changes in human population, per capita consumption of natural resources, and other human activities (e.g., land use, resource development, water and air pollution, urbanization) affect Earth's systems.					
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8. Provides relevant grade-appropriate connections to the math and ELA standards. □ (a) Math Standards Connections Visible □ (b) ELA Standards Connections Visible					
9. Provides scaffolded supports for teachers to facilitate learning of the practices so that students are increasingly responsible for making sense of phenomena and/or designing solutions to problems.					
10. Provides opportunities for grade-appropriate scientific discourse, scientific writing, and academic vocabulary in the context of the learning experience.					
11. Adheres to safety rules and emphasizes the importance of safety in science procedures, labs, and experiments.					
STEP 1: Tabulate the total points for each column. Add column totals and transfer to compilation form					

Documentation of how the standard is met. Cite examples from the material (chapter and page numbers OR module and tab name)
Portions of the standard that are missing or not well developed in the instructional material (if any):
Comments:

Textbook Series/Title: _____ Reviewer Initials_____

Instructional Materials Criterion Form
Sixth Grade Science Standards

Students will:

6-16: Implement scientific principles to design processes for monitoring and minimizing human impact on the environment (e.g., water usage, including withdrawal of water from streams and aquifers or construction of dams and levees; land usage, including urban development, agriculture, or removal of wetlands; pollution of air, water, and land).*					
0 = Rarely adheres to the criteria 1= Occasionally adheres to the criteria 2 = Sometimes adheres to the criteria 3= Adheres to the criteria 4 = Exceeds the criteria					
Place a check in the appropriate box for each of the criteria after review	0	1	2	3	4
1. Grade appropriate evidence of the science and engineering practices **(SEP)** is evident.					
2. Grade appropriate evidence of the crosscutting concepts **(CCC)** is evident.					
3. Grade appropriate evidence that the disciplinary core idea **(DCI)** is evident.					
4. Materials focus on an integration of SEP's **and** CCC's into the in-depth learning of the DCI.					
5. Learning experiences fit together coherently and help students develop proficiency on this standard.					
6. Learning opportunities include instructional strategies that facilitate three-dimensional learning in an integrated fashion to support making sense of phenomena and/or designing solutions to problems through inquiry and engineering design experiences.					
7. Integrates engineering and technology as significant elements in the learning experiences.					
8. Provides relevant grade-appropriate connections to the math and ELA standards. □ (a) Math Standards Connections Visible □ (b) ELA Standards Connections Visible					
9. Provides scaffolded supports for teachers to facilitate learning of the practices so that students are increasingly responsible for making sense of phenomena and/or designing solutions to problems.					
10. Provides opportunities for grade-appropriate scientific discourse, scientific writing, and academic vocabulary in the context of the learning experience.					
11. Adheres to safety rules and emphasizes the importance of safety in science procedures, labs, and experiments.					
STEP 1: Tabulate the total points for each column. Add column totals and transfer to compilation form					

Documentation of how the standard is met. Cite examples from the material (chapter and page numbers OR module and tab name)
Portions of the standard that are missing or not well developed in the instructional material (if any):
Comments:

Textbook Series/Title: _____ Reviewer Initials_____