

Instructional Materials Criterion Form Third Grade Science Standards

Students will:

3-1: Plan and carry out an experiment to determine the effects of balanced and unbalanced forces on the motion of an object using one variable at a time, including number, size, direction, speed, position, friction, or air resistance (e.g., balanced forces pushing from both sides on an object, such as a box, producing no motion; unbalanced force on one side of an object, such as a ball, producing motion), and communicate these findings graphically.					
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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. <input type="checkbox"/> (a) Math Standards Connections Visible <input type="checkbox"/> (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.					
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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)
Portions of the standard that are missing or not well developed in the instructional material (if any):
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Students will:

3-2: Investigate, measure, and communicate in a graphical format how an observed pattern of motion (e.g., a child swinging in a swing, a ball rolling back and forth in a bowl, two children teetering on a see-saw, a model vehicle rolling down a ramp of varying heights, a pendulum swinging) can be used to predict the future motion of an object.

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Students will:

3-3: Explore objects that can be manipulated in order to determine cause-and-effect relationships (e.g., distance between objects affecting strength of a force, orientation of magnets affecting direction of a magnetic force) of electric interactions between two objects not in contact with one another (e.g., force on hair from an electrically charged balloon, electrical forces between a charged rod and pieces of paper) or magnetic interactions between two objects not in contact with one another (e.g., force between two permanent magnets or between an electromagnet and steel paperclips, force exerted by one magnet versus the force exerted by two magnets).					
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Students will:

3-4: Apply scientific ideas about magnets to solve a problem through an engineering design project (e.g., constructing a latch to keep a door shut, creating a device to keep two moving objects from touching each other such as a maglev system).*					
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Students will:

3-5: Obtain and combine information to describe that organisms are classified as living things, rather than nonliving things, based on their ability to obtain and use resources, grow, reproduce, and maintain stable internal conditions while living in a constantly changing external environment.					
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Students will:

3-6: Create representations to explain the unique and diverse life cycles of organisms other than humans (e.g., flowering plants, frogs, butterflies), including commonalities such as birth, growth, reproduction, and death.					
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Students will:

3-7: Examine data to provide evidence that plants and animals, excluding humans, have traits inherited from parents and that variations of these traits exist in groups of similar organisms (e.g., flower colors in pea plants, fur color and pattern in animal offspring).					
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Students will:

3-8: Engage in argument from evidence to justify that traits can be influenced by the environment (e.g., stunted growth in normally tall plants due to insufficient water, change in an arctic fox’s fur color due to light and/or temperature, stunted growth of a normally large animal due to malnourishment).					
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Students will:

3-9: Analyze and interpret data from fossils (e.g., type, size, distribution) to provide evidence of organisms and the environments in which they lived long ago (e.g., marine fossils on dry land, tropical plant fossils in arctic areas, fossils of extinct organisms in any environment).					
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Students will:

3-10: Investigate how variations in characteristics among individuals of the same species may provide advantages in surviving, finding mates, and reproducing (e.g., plants having larger thorns being less likely to be eaten by predators, animals having better camouflage coloration being more likely to survive and bear offspring).					
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Students will:

3-11: Construct an argument from evidence to explain the likelihood of an organism’s ability to survive when compared to the resources in a certain habitat (e.g., freshwater organisms survive well, less well, or not at all in saltwater; desert organisms survive well, less well, or not at all in woodlands). a. Construct explanations that forming groups helps some organisms survive. b. Create models that illustrate how organisms and their habitats make up a system in which the parts depend on each other. c. Categorize resources in various habitats as basic materials (e.g., sunlight, air, freshwater, soil), produced materials (e.g., food, fuel, shelter), or as nonmaterial (e.g., safety, instinct, nature-learned behaviors).					
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Students will:

3-12: Evaluate engineered solutions to a problem created by environmental changes and any resulting impacts on the types and density of plant and animal populations living in the environment (e.g., replanting of sea oats in coastal areas due to destruction by hurricanes, creating property development restrictions in vacation areas to reduce displacement and loss of native animal populations).*					
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3-13: Display data graphically and in tables to describe typical weather conditions expected during a particular season (e.g., average temperature, precipitation, wind direction).					
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3-14: Collect information from a variety of sources to describe climates in different regions of the world.					
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Students will:

3-15: Evaluate a design solution (e.g., flood barriers, wind resistant roofs, lightning rods) that reduces the impact of a weather-related hazard.*					
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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. <input type="checkbox"/> (a) Math Standards Connections Visible <input type="checkbox"/> (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** _____