Vermont Science

# Grade 3

Adopted 2013

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| **Motion and Stability: Forces and Interactions** 3-PS2 | **3-PS2-1.** | **Plan and conduct an investigation to provide evidence of the effects of balanced and unbalanced forces on the motion of an object.** 3-PS2-1 |
| | **3-PS2-2.** | **Make observations and/or measurements of an object's motion to provide evidence that a pattern can be used to predict future motion.** 3-PS2-2 |
| | **3-PS2-3.** | **Ask questions to determine cause and effect relationships of electric or magnetic interactions between two objects not in contact with each other.** 3-PS2-3 |
| | **3-PS2-4.** | **Define a simple design problem that can be solved by applying scientific ideas about magnets.** 3-PS2-4 |
| **From Molecules to Organisms: Structures and Processes** 3-LS1 | **3-LS1-1.** | **Develop models to describe that organisms have unique and diverse life cycles but all have in common birth, growth, reproduction, and death.** 3-LS1-1 |
| **Ecosystems: Interactions, Energy, and Dynamics** 3-LS2 | **3-LS2-1.** | **Construct an argument that some animals form groups that help members survive.** 3-LS2-1 |
| **Heredity: Inheritance and Variation of Traits** 3-LS3 | **3-LS3-1.** | **Analyze and interpret data to provide evidence that plants and animals have traits inherited from parents and that variation of these traits exists in a group of similar organisms.** 3-LS3-1 |
| | **3-LS3-2.** | **Use evidence to support the explanation that traits can be influenced by the environment.** 3-LS3-2 |
| **Biological Evolution: Unity and Diversity** 3-LS4 | **3-LS4-1.** | **Analyze and interpret data from fossils to provide evidence of the organisms and the environments in which they lived long ago.** 3-LS4-1 |
| | **3-LS4-2.** | **Use evidence to construct an explanation for how the variations in characteristics among individuals of the same species may provide advantages in surviving, finding mates, and reproducing.** 3-LS4-2 |
| | **3-LS4-3.** | **Construct an argument with evidence that in a particular habitat some organisms can survive well, some survive less well, and some cannot survive at all.** 3-LS4-3 |

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| | **3-LS4-4.** Make a claim about the merit of a solution to a problem caused when the environment changes and the types of plants and animals that live there may change. 3-LS4-4 |
| **Earth's Systems** 3-ESS2 | **3-ESS2-1.** Represent data in tables and graphical displays to describe typical weather conditions expected during a particular season. 3-ESS2-1 |
| | **3-ESS2-2.** Obtain and combine information to describe climates in different regions of the world. 3-ESS2-2 |
| **Earth and Human Activity** 3-ESS3 | **3-ESS3-1.** Make a claim about the merit of a design solution that reduces the impacts of a weather-related hazard. 3-ESS3-1 |
| **Engineering Design** 3-5-ETS1 | **3-5-ETS1-1.** Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost. 3-5-ETS1-1 |
| | **3-5-ETS1-2.** Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem. 3-5-ETS1-2 |
| | **3-5-ETS1-3.** Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved. 3-5-ETS1-3 |