

# Grade 3

**Forces and Interactions:  
Motion and Stability**  
**SC.3.1.1 Gather, analyze,  
and communicate  
evidence of** SC.3.1

**1 Gather, analyze, and communicate evidence of forces and their interactions.** SC.3.1.1

- a Plan and conduct an investigation to provide evidence of the effects of balanced and unbalanced forces on the motion of an object. SC.3.1.1.A
  - b Make observations and/or measurements of an object's motion to provide evidence that a pattern can be used to predict future motion. SC.3.1.1.B
  - c Ask questions to determine cause and effect relationships of electrical or magnetic interactions between two objects not in contact with each other. SC.3.1.1.C
  - d Define a simple design problem that can be solved by applying scientific ideas about magnets. SC.3.1.1.D
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**Interdependent  
Relationships in  
Ecosystems** SC.3.7

**2 Gather, analyze, and communicate evidence of the interdependent relations in ecosystems.** SC.3.7.2

- a Construct an argument that some animals form groups that help members survive. SC.3.7.2.A
  - b Analyze and interpret data from fossils to provide evidence of the organisms and environments in which they lived long ago. SC.3.7.2.B
  - c 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. SC.3.7.2.C
  - d 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. SC.3.7.2.D
  - e 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. SC.3.7.2.E
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**Inheritance and Variation: Life Cycles and Traits** SC.3.9

**3 Gather and analyze data to communicate an understanding of inheritance and variation of traits through life cycles and environmental influences.** SC.3.9.3

- a Develop models to describe that organisms have unique and diverse life cycles but all have in common birth, growth, reproduction, and death. SC.3.9.3.A
  - b 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. SC.3.9.3.B
  - c Use evidence to support the explanation that traits can be influenced by the environment. SC.3.9.3.C
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**Weather and Climate** SC.3.12

**4 Gather and analyze data to communicate an understanding of weather and climate.** SC.3.12.4

- a Represent data in table, pictograph, and bar graph displays to describe typical weather conditions expected during a particular season. SC.3.12.4.A
- b Obtain and combine information to describe climates in different regions of the world. SC.3.12.4.B
- c Make a claim about the merit of a design solution that reduces the impacts of a weather-related hazard. SC.3.12.4.C