

Grade 2

Matter and Its Interactions

Structure and Properties

Structure and Function

- 1 Plan and carry out investigations to compare, contrast, and classify various solid and liquid materials according to physical properties, including color and texture. [2.1](#)
 - 2 Conduct investigations to determine suitable uses of natural and manufactured materials based on their observable properties, including strength, flexibility, hardness, absorbency, and texture. [2.2](#)
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Physical and Chemical Changes

Stability and Change

- 3 Demonstrate and explain how structures made from a small set of pieces can be disassembled and then reassembled as new and different structures. [2.3](#)
 - 4 Provide evidence that some changes in matter caused by heating or cooling can be reversed and some changes are irreversible. [2.4](#)
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Ecosystems: Interactions, Energy, and Dynamics

Interdependent Relationships

Cause and Effect

Structure and Function

- 5 Plan and carry out an investigation, using one variable at a time, to determine how each variable affects plant growth. [2.5](#)
 - 6 Design and construct models to simulate how animals disperse seeds or pollinate plants. [2.6](#)
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Biodiversity

System and System Models

- 7 Obtain information to explain that there are many different kinds of living things that exist in habitats on land and in water. [2.7](#)
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Earth's Systems

Physical Features

Patterns

- 8 Use models to distinguish between the shapes and kinds of land and water on Earth. 2.8
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Water

Scale, Proportion, and Quantity

- 9 Obtain information to identify where water is found on Earth and determine whether it is a solid or a liquid. 2.9
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Changes Over Time

Stability and Change

- 10 Use a variety of sources to provide evidence that Earth's events can occur slowly or rapidly. Examples: erosion, melting of glaciers; earthquakes, volcanic eruptions 2.10
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Human Impact

Cause and Effect

- 11 Evaluate multiple solutions designed to slow or prevent wind or water from changing the shape of Earth's surface. 2.11