Alabama Science

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

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

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

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

Earth's Systems

Physical Features

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

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

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

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