Alabama Science

Grade K

Motion and Stability: Forces and Interactions

Changes in Motion

Cause and Effect

1 Plan and carry out investigations to determine the effects of forces of different strengths and directions on the motion of an object, including speed, direction, and distance traveled. K.1

2 Analyze data from investigations to determine whether a design solution provides sufficient force to change the speed or direction of an object. K.2

Ecosystems: Interactions, Energy, and Dynamics

Structures and Processes

Patterns

3 Use data from observations to distinguish characteristics of living and nonliving things. K.3

4 Use observations to determine patterns of what plants and animals (including humans) need to survive, including light, water, and nutrients. K.4

Interdependent Relationships

Systems and System Models

5 Gather information from observations and media to explain how plants and animals can provide for their needs by changing their environment. K.5

6 Use models of natural habitats to represent the interdependence among plants and animals native to their community. K.6

Earth's Systems

Energy Transfer

Cause and Effect

7 Make observations and describe the effects of sunlight on Earth's surface. K.7

8 Design, construct, and test a device to reduce the effects of sunlight. K.8

Weather

Patterns

Observe, record, and communicate local weather patterns over a period of time. K.9

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10 Obtain, evaluate, and communicate information about using weather forecasts to make plans and prepare for severe weather. K.10

Earth and Human Activity

Human Impact

Cause and Effect

11 Identify a problem and design possible solutions that lessen the human impact on the local environment. K.11