

# Grade 5

## Matter and Its Interactions

- 1 Recognize that matter is made of particles too small to be seen. [SCI.AAS.5.1](#)
- 2 Classify materials (e.g., powders, metals, minerals, liquids) based on their properties (e.g., color, hardness, and reflectivity). [SCI.AAS.5.2](#)
- 3 Recognize that regardless of the type of reaction (e.g., new substance forming due to dissolving or mixing) or change (e.g., phase change) that occurs when heating, cooling, or mixing substances, the total weight of the matter does not change. [SCI.AAS.5.3](#)
- 4 Predict whether the mixing of two or more substances results in new substances (e.g., mixing of baking soda and vinegar resulting in the formation of a new substance, gas; mixing of sand and water resulting in no new substance being formed). [SCI.AAS.5.4](#)

## Motion and Stability: Forces and Interactions

- 5 Identify examples of objects being affected by Earth's downward gravitational force. [SCI.AAS.5.5](#)
- 6 Identify solutions designed to reduce the effects of a falling object due to gravity (e.g., a parachute to keep an attached object from breaking). [SCI.AAS.5.6](#)

## Ecosystems: Interactions, Energy and Dynamics

- 7 Recognize that plants obtain materials needed for growth primarily from air and water. [SCI.AAS.5.7](#)
- 8 Identify that animals get their energy to grow and move from food (plants and animals). [SCI.AAS.5.8](#)
- 9 Using a given model, identify a missing part of a simple food chain. [SCI.AAS.5.9](#)

## Earth's Place in the Universe

- 10 Using a model, identify that distance affects the brightness of stars. [SCI.AAS.5.10](#)
- 11 Identify patterns of change caused by the Earth's position and/or motion (e.g., moon phases and shadows). [SCI.AAS.5.11](#)

## Earth's Systems

- 12 Identify how the atmosphere and hydrosphere interact to support life (e.g., air, water). [SCI.AAS.5.12](#)
- 13 Identify the distribution of freshwater and saltwater on Earth (e.g., oceans, lakes, rivers, glaciers, groundwater, polar ice caps). [SCI.AAS.5.13](#)

## Earth and Human Activity

**14 Identify human actions that can help the environment.** *SCI.AAS.5.14*

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**15 Identify ways humans can prevent or reverse pollution in the environment.** *SCI.AAS.5.15*