Idaho Science

# Grade 5

Adopted 2022

## Physical Science

### 5-PS-1. Matter and Its Interactions 5-PS-1

1. Develop a model to describe that matter is made of particles too small to be seen. 5-PS-1.1
2. Measure and graph quantities to provide evidence that regardless of the type of change that occurs when heating, cooling, or mixing substances, the total weight of matter is conserved. 5-PS-1.2
3. Make observations and measurements to identify materials based on their properties. 5-PS-1.3
4. Conduct an investigation to determine whether the mixing of two or more substances results in new substances. 5-PS-1.4

### 5-PS-2. Motion and Stability: Forces and Interactions 5-PS-2

1. Support an argument that Earth's gravitational force exerted on objects is directed downward. 5-PS-2.1

### 5-PS-3. Energy 5-PS-3

1. Use models to describe that energy in animals' food (used for body repair, growth, motion, and to maintain body warmth) was once energy from the Sun. 5-PS-3.1

## Life Science

### 5-LS-1. From Molecules to Organisms: Structure and Processes 5-LS-1

1. Support an argument that plants get what they need for growth chiefly from air, water, and energy from the Sun. 5-LS-1.1

### 5-LS-2. Biological Adaptation: Unity and Diversity 5-LS-2

1. Analyze and interpret data from fossils to provide evidence of the types of organisms and the environments that existed long ago and compare those to living organisms and their environments. 5-LS-2.1
2. Construct an argument with evidence for how the variations in characteristics among individuals of the same species may provide advantages in surviving, finding mates, and reproducing. 5-LS-2.2
3. Make a claim about the merit of a solution to a problem caused when the environment changes and the types of plants and animals living there may change. 5-LS-2.3

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4. Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment. 5-LS-2.4

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**Earth and Space Science**

**5-ESS-1. Earth's Place in the Universe** 5-ESS-1

1. Support an argument that differences in the apparent brightness of the Sun compared to other stars is due to their relative distances from the Earth. 5-ESS-1.1
2. Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky. 5-ESS-1.2

**5-ESS-2. Earth's Systems** 5-ESS-2

1. Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact. 5-ESS-2.1
2. Describe and graph the relative amounts of fresh and salt water in various reservoirs, to interpret and analyze the distribution of water on Earth. 5-ESS-2.2

**5-ESS-3. Earth and Human Activity** 5-ESS-3

1. Obtain and combine information about ways communities protect Earth's resources and environment using scientific ideas. 5-ESS-3.1