

# Scope and Sequence

## Level 4 Year 1

<b>Earth Features</b>
<p>4.7B Observe and identify slow changes to Earth's surface caused by weathering, erosion, and deposition from water, wind, and ice.</p> <p>4.7C Identify and classify Earth's renewable resources, including air, plants, water, and animals, and nonrenewable resources, including coal, oil, and natural gas, and the importance of conservation.</p>
<b>Energy</b>
<p>4.6A Differentiate among forms of energy, including mechanical, sound, electrical, light, and thermal.</p> <p>4.6B Differentiate between conductors and insulators of thermal and electrical energy.</p> <p>4.6C Demonstrate that electricity travels in a closed path, creating an electrical circuit.</p>
<b>Traits</b>
<p>4.10A Explore how structures and functions enable organisms to survive in their environment.</p> <p>4.10B Explore and describe examples of traits that are inherited from parents to offspring such as eye color and shapes of leaves and behaviors that are learned such as reading a book and a wolf pack teaching their pups to hunt effectively.</p> <p>4.10C Explore, illustrate, and compare life cycles in living organisms such as beetles, crickets, radishes, or lima beans.</p>
<b>Ecosystems</b>
<p>4.9A Investigate that most producers need sunlight, water, and carbon dioxide to make their own food, while consumers are dependent on other organisms for food.</p> <p>4.9B Describe the flow of energy through food webs, beginning with the Sun, and predict how changes in the ecosystem affect the food web.</p>
<b>Selected Topics</b>
<b>Matter</b>
<p>4.5A Measure, compare, and contrast physical properties of matter, including mass, volume, states (solid, liquid, gas), temperature, magnetism, and the ability to sink or float.</p> <p>4.5B Compare and contrast a variety of mixtures, including solutions.</p>

**Earth Materials**

4.7A Examine properties of soils, including color and texture, capacity to retain water, and ability to support the growth of plants.

**Weather**

4.8A Measure, record, and predict changes in weather.

4.8B Describe and illustrate the continuous movement of water above and on the surface of Earth through the water cycle and explain the role of the Sun as a major source of energy in this process.

4.8C Collect and analyze data to identify sequences and predict patterns of change in shadows, seasons, and the observable appearance of the Moon over time.

**Magnets**

4.6D Design a descriptive investigation to explore the effect of force on an object such as a push or a pull, gravity, friction, or magnetism.