

Kindergarten

Science Process Skills

- Makes logical predictions.
- Draws conclusions based on results.
- Tests predictions.

Grade 1

> Life Science

- \circ $\;$ Demonstrates understanding that there are a variety of living things.
- o Demonstrates understanding that living things have similar basic needs.

> Earth Science

- Demonstrates an understanding of local weather patterns.
- Demonstrates an understanding of ways to measure and/or determine the weather.

> Physical Science

- Can give examples of solids based on their properties.
- Can give examples of liquids based on their properties.

Grade 2

> Life Science

- Describes the life cycle of a butterfly.
- Shows an understanding of basic needs for growth in plants and animals.

Earth Science

- Demonstrates knowledge of soil origin and soil components.
- Shows an understanding of the soil type that is best for plant growth.

> Physical Science

- Describes how sound is produced and demonstrates the relationship between rate of vibration and pitch of sounds.
- Describes the different ways that an object can move and demonstrates ways to change motion using a force.

Grade 3

> Life Science

- Recognizes that plants go through predictable life cycles.
- \circ $\;$ Identifies the structures of a plant and gives their specific function.
- Demonstrates understanding of plants as part of a food chain.

• Recognizes reasons for plant behaviors (i.e., a stem growing towards the light).

Earth Science

- o Identifies the way an organism's habitat provides for its basic needs.
- Can give examples of ways organisms adapt to their habitat.
- Understands the interdependency of organisms within their habitat.

> Physical Science

- Understands the properties of magnets.
- o Identifies simple machines and explains their use in daily life.

Grade 4

Life Science

• Demonstrates knowledge of fossils and their role in our understanding of history.

Earth Science

- Demonstrates knowledge of different minerals and their properties.
- Demonstrates knowledge of the three categories of rocks.
- Gives examples of how the surface of the earth changes due to processes like erosion, weathering, landslides, volcanic eruption, and earthquakes.
- Recognizes that the earth is part of the solar system and describes the relationship between earth, moon, and sun.

Physical Science

- Demonstrates an understanding of how electricity is produced.
- Explains how to make a complete circuit and identifies different types of circuits.

Grade 5

> Life Science

- Recognizes and gives examples of adaptations of living things.
- Describes how energy from the sun is transferred through a food chain.

Earth Science

- o Explains weather concepts and the difference between weather and climate.
- Describes the process of the water cycle Recognizes and discusses the different properties of soil and how water affects land.

Physical Science

- Compares and contrasts the three states of matter.
- Describes how heat energy will cause changes in states.