First Grade Science Curriculum

PHYSICAL SCIENCE

Forces and Motion
2.P.1: Understand the relationship between sound and vibrating objects.
- 2.P.1.1: Illustrate how sound is produced by vibrating objects and columns of air.
- 2.P.1.2: Summarize the relationship between sound and objects of the body that vibrate – eardrum and vocal cords.

Matter, Properties, and Change
2.P.2: Understand properties of solids and liquids and the changes they undergo.
- 2.P.2.1: Give examples of matter that change from a solid to a liquid and from a liquid to a solid by heating and cooling.
- 2.P.2.2: Compare the amount (volume and weight) of water in a container before and after freezing.
- 2.P.2.3: Compare what happens to water left in an open container over time as opposed to water left in a closed container.

EARTH SCIENCE

Earth Systems, Structures, and Processes
2.E.1: Understand patterns of weather and factors that affect weather.
- 2.E.1.1: Summarize how energy from the sun serves as a source of light that warms the land, air, and water.
- 2.E.1.2: Summarize weather conditions using qualitative and quantitative measures to describe temperature, wind direction, wind speed, and precipitation.
- 2.E.1.3: Compare weather patterns that occur over time and relative observable patterns to time of day and time of year.
- 2.E.1.4: Recognize the tools that scientists use for observing, recording, and predicting weather changes from day to day and during the seasons.

LIFE SCIENCE

Structures and Functions of Living Organisms
2.L.1: Understand animal life cycles.
- 2.L.1.1: Summarize the life cycle of animals: birth; developing into an adult; reproducing; aging and death.
- 2.L.1.2: Compare life cycles of different animals such as, but not limited to, mealworms, ladybugs, crickets, guppies, or frogs.

Evolution and Genetics
2.L.2: Remember that organisms differ from or are similar to their parents based on the characteristics of the organism.
- 2.L.2.1: Identify ways in which many plants and animals closely resemble their parents in observed appearance and ways they are different.
- 2.L.2.2: Recognize that there is variation among individuals that are related.