

Walton Academy
2nd Grade Science
Goals and Objectives

Forces and Motion

Understand the relationship between sound and vibrating objects.

- Illustrate how sound is produced by vibrating objects and columns of air.
- Summarize the relationship between sound and objects of the body that vibrate – eardrum and vocal cords.

Matter: Properties and Change

Understand properties of solids and liquids and the changes they undergo.

- Give examples of matter that change from a solid to a liquid and from a liquid to a solid by heating and cooling.
- Compare the amount (volume and weight) of water in a container before and after freezing.
- Compare what happens to water left in an open container over time as to water left in a closed container.

Earth Systems, Structures and Processes

Understand patterns of weather and factors that affect weather.

- Summarize how energy from the sun serves as a source of light that warms the land, air and water.
- Summarize weather conditions using qualitative and quantitative measures to describe: • Temperature • Wind direction • Wind speed • Precipitation
- Compare weather patterns that occur over time and relate observable patterns to time of day and time of year. Recognize the tools that scientists use for observing, recording, and predicting weather changes from day to day and during the seasons.

Structures and Functions of Living Organisms

Understand animal life cycles.

- Summarize the life cycle of animals: • Birth • Developing into an adult • Reproducing • Aging and death.
- Compare life cycles of different animals such as, but not limited to, mealworms, ladybugs, crickets, guppies or frogs.

Evolution and Genetics

Remember that organisms differ from or are similar to their parents based on the characteristics of the organism.

- Identify ways in which many plants and animals closely resemble their parents in observed appearance and ways they are different.
- Recognize that there is variation among individuals that are related.

Supplementary Books and Materials:

- McGraw-Hill
- Steck-Vaughan
- BrainPop Jr.
- Epic! Books
- Science Manipulatives: Hand2Mind, EAI Education, MindWare
- Teacher Created Materials

