

First Grade Science

Course Description:

First Grade Science is a student engaging, inquiry based curriculum that focuses on the introduction and development of scientific concepts and skills necessary for the students to investigate, discover, and understand the world around them. Students will learn about the needs and specific characteristics of plants and animals. They will discover ways to change the motion of objects and learn how force and motion work together. Students will distinguish sounds and the properties that control the sounds. They will explore seasons and the weather that is associated within each individual season. First grade students should begin to develop a deeper understanding of their world around them.

Big Ideas:

Animal/Plant Life

- Identify the basic needs of plants and animals.
- Identify and compare physical features and their functionalities.
- Identify similarities between parents and offspring.

Force and Motion

- Identify positions of objects in comparison to other objects.
- Identify an object's motion and understand that force is required to put it in motion.

Wave Properties

- Identify everyday sounds and specific characteristics of these sounds.
- Identify that sound is produced through vibrations.

Weather and Climate

- Observe, measure and record weather data throughout the year and the variations of phenomena associated with the seasons.

Essential Learner Outcomes:

- Students will listen and explore to identify the needs of living things and their characteristics that help them survive. (LS1A)
- Students will describe ways to change the motion of an object and identify the force used to make the object move. (PS2A)
- Students will identify different sounds and their characteristics. (PS4-A)

- Students will identify each season and the weather that is associated with each one. (ESS2D)