SCIENCE

GRADE 6

A central theme throughout sixth grade science is how energy and matter are exchanged and transformed throughout different aspects of the world around us. Students will learn how this works by exploring Earth's structures and how it affects our weather and climate. Students will also understand the development, organization, and diversity of living systems and how energy transfer is connected. They will also spend time exploring energy, forces, and motion.

Quarter 1	**Nature of Science** ☐ Asking questions and defining problems ☐ Developing and using models ☐ Planning and carrying out investigations ☐ Analyzing and interpreting data ☐ Using mathematics and computational thinking ☐ Constructing explanations and designing solutions ☐ Engaging in scientific argument from evidence ☐ Obtaining, evaluating, and communicating information
Quarter 2	**Physical Science** ☐ Explore the Law of conservation of Energy by differentiating between kinetic and potential energy ☐ Observe, describe, and measure the motion of an object ☐ Investigate different types of forces like magnetic, gravitational, and electrical

Quarter 3	**Earth Science** ☐ Explore the Law of Gravity ☐ Investigate what happens when unbalanced forces act on each other ☐ Learn ways in which the Earth's surface is built up and torn down ☐ Recognize that there are a variety of different landforms ☐ Investigate how heat is transferred through the Earth ☐ Investigate how the water cycle has an effect on weather and climate ☐ Describe how global patterns influence local weather ☐ Explore the interactions among the parts of the Earth and how the energy is transferred ☐ Investigate how natural disasters have affected life in Florida
Quarter 4	**Life Science** ☐ Describe how living things are organized ☐ Investigate the components of the scientific theory of cells ☐ Recognize and explore how cells undergo similar processes including obtaining and using energy, getting rid of waste, and reproducing ☐ Compare the structure and function of major organelles ☐ Identify and investigate the general functions of major systems in the human body ☐ Compare and contrast types of infectious agents that may infect the human body ☐ Analyze how living things are classified according to shared characteristics