Scope and Sequence

Content Area: **Science**
Course(s): **Science**
Time Period: **Full Year**
Length: **Length of the Course**
Status: **Published**

Course Overview

The Fifth Grade Next Generation Science Curriculum begins students on the path of exploring the nature of Physical, Earth and Life Sciences through active investigations, observations, data collection and interpretation. Concepts that will be introduced and studied will be Mixtures and Solutions, Earth and Sun and Living Systems. Throughout the Mixtures and Solutions Unit, students will explore fundamental ideas about matter and its interactions. They will come to know that matter is made of particles too small to be seen and develop the understanding that matter is conserved when it changes state—from solid to liquid to gas—when it dissolves in another substance, and when it is part of a chemical reaction. Next, the Earth and Sun Unit is where students will explore the properties of the atmosphere, energy transfer from the Sun to Earth, and the dynamics of weather and water cycling in Earth's atmosphere. Other experiences help students develop and use models to understand Earth's place in the solar system, and the interactions of Earth, the Sun, and the Moon to reveal predictable patterns—daily length and direction of shadows, day and night, and the seasonal appearance of stars in the night sky. Finally, students will think about Living Systems on different scales—nutrient and transport systems within an organism that moves matter and provides energy to the individual organism and feeding relationships in ecosystems that move matter among plants, animals, decomposers and the environment. Students come to understand through a variety of experiences that plants get the materials they need for growth primarily from water and air, and that energy in animal's food was once energy from the Sun.

Scope and Sequence

Order of the Unit	Title of the Unit	Time Frame
Unit 1	Mixtures and Solutions	Approx. 10 weeks
Unit 2	Earth and Sun	Approx. 11 weeks
Unit 3	Living Systems	Approx. 11 weeks

Date of Board Approval

This curriculum was approved by the Green Brook Board of Education on