

Expectations and Outcomes

Grade Level/Course: Second Grade

Content Area: Science

Unit Title	Guarantees
Structure and Properties of Matter	<p>Students will demonstrate knowledge of 2-PS1-1 through rock classification and comparison.</p> <p>Students will demonstrate knowledge of 2-PS1-2 through conducting an experiment comparing the absorbency of different materials.</p> <p>Students will demonstrate knowledge of 2-PS1-3 through manipulation of math cubes and tangrams.</p> <p>Students will demonstrate knowledge of 2-PS1-3 through manipulation of math cubes and tangrams.</p>
Interdependent Relationships in Ecosystems	<p>Students will demonstrate knowledge of 2-LS2-1 through an experiment comparing plant growth in sunlight to darkness.</p> <p>Students will be able to identify environments in which living things live.</p> <p>Students will be able to identify the natural resources that people use to meet their needs.</p> <p>Students will be able to identify how natural resources are wasted.</p> <p>Students will be able to identify the natural resources that plants need.</p> <p>Students will demonstrate knowledge of 2-LS2-2 through the school forest field trip.</p> <p>Students will be able to identify the difference between living and nonliving things.</p> <p>Students will be able to identify and label the parts of a plant.</p> <p>Students will be able to identify the purpose of each part of the plant.</p> <p>Students will demonstrate knowledge of 2-LS4-1 through visiting the school forest and school stations (animal food chains, camouflage, animal habitats and predator's vs prey.</p> <p>Students will be able to identify a mammal, bird, reptile, and amphibian.</p>
Earth's Systems: Processes that Shape the Earth	<p>Students will demonstrate knowledge of 2-ESS1-1 and K-2-ETS1-3 through a baking soda and vinegar volcano made out of a bottle and paper.</p> <p>Students will be able to identify various changes to the Earth's surface.</p> <p>Students will be able to identify the different materials in the Earth's surface.</p> <p>Students will be able to identify the order of fossil creation.</p> <p>Students will demonstrate knowledge of 2-ESS2-1 through the school forest field trip and erosion.</p> <p>Students will demonstrate knowledge of 2-ESS2-2 through <i>The Earth</i> social studies book.</p>

Unit Title	Guarantees
	<p>Students will demonstrate knowledge of 2-ESS2-3 through the weather unit (solid, liquid, and gas) as well as the water cycle.</p> <p>Students will be able to order the seasons and tell about their weather.</p> <p>Students will be able to understand that our planet is part of the solar system.</p> <p>Students will be able to explain that the Earth's rotation causes day and night.</p> <p>Students will be able to identify the three stages of matter.</p> <p>Students will be able to identify the three stages of matter and how they change from one form to another.</p>
Engineering Design	<p>Students will demonstrate knowledge of 2-K-ETS1-1 and K-2-ETS1-2 through conducting a science experiment through the plant life cycle.</p>