

**SCIENCE Third Grade**

<b>VALUES AND ATTITUDES</b>	The student will: Explore and appreciate all life forms. Understand and acknowledge the need for conservation and wise use of natural resources (stewardship). Recognize the impact of cause/effect relationships. Recognize that the earth is constantly changing. Understand that Global issues are a concern and responsibility of all of Earth's inhabitants. Understand that experimentation helps determine cause and effect relationships. Understand that meaningful questions extend our learning and understanding.
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**STRAND A Life Science**

<b>OBJECTIVES</b>
Adaptations in physical structure or behavior <ul style="list-style-type: none"><li>• Determine that plant growth is affected by the quantity and quality of nutrients, light, and water in the environment.</li><li>• Observe the impact of environmental conditions on plant growth.</li><li>• Analyze growth, survival and reproduction in plants.</li><li>• Investigate and determine how new plants are generated.</li><li>• Determine the number of seeds a plant can produce by investigating variables.</li></ul>

**STRAND B Earth Science**

<b>OBJECTIVES</b>
Soil <ul style="list-style-type: none"><li>• Describe soil as a mixture of components such as sand, clay, silt, humus, and rock.</li><li>• Identify various types of soil and differentiate the properties of soil.</li><li>• Analyze the ability of soils to support the growth of a variety of plants.</li><li>• Evaluate composting.</li><li>• Identify some processes that cause rock to break down into soil particles.</li></ul> Solar system <ul style="list-style-type: none"><li>• Identify earth as a planet in a solar system.</li><li>• Identify the parts of our solar system.</li><li>• Observe the movement of the sun in the sky during the day using shadows,</li><li>• Observe the angular position of the sun at noon and relate to seasons.</li><li>• Observe the change in shape of the moon to determine a pattern.</li></ul> Observe and describe the appearance of stars at night.

**STRAND C Physical Science**

**OBJECTIVES**

Energy and matter

- Describe some examples of different forms of energy.
- Differentiate between potential and kinetic energy.
- Describe some relationships between energy, work, force, and motion.
- Determine that one source of heat and light energy is the sun.
- Analyze the reflection of light.
- Determine the nature of light in relation to shadows.
- Analyze the movement of heat from one object to another, conduction.
- Evaluate conduction in a variety of materials.

**STRAND D Nature of Science**

**OBJECTIVES**

Conducting Investigations

- Use instruments to collect data, take measurements and make observations.
- Differentiate opinion and fact based on evidence
- Measure, predict, draw conclusions and communicate results.
- Collect and analyze data to formulate logical conclusions.