

**Course Description:**

Third grade science introduces students to experimentation as they journey through the earth and its many miracles. They will begin by learning about the earth, the sun and the moon. By participating in simple experiments students will explore the water cycle, gravity, the weather and its patterns, various types of terrain, and the role of plants in the production of oxygen and their importance to human survival. Learners will expand their knowledge through video, pictures, short readings, projects, and hands on experiments. Learners will understand that experiments require the use of instruments, observation, recording, and drawing evidence based conclusions. Grade 3 science provides students with the opportunity to expand their minds and see for themselves the way that science is a part of their everyday lives.

**Materials needed:** Colored pencils or crayons, Inflatable Globe, Lamp from your home or school, Large pan, Plastic plate, Gong – or some object to sound on to denote the passing of an hour, pan (or any flat, open dish), Small jar without a lid, small jar with a lid, tablespoon, tape, ice cubes, blue construction paper, three hole punch, yarn, bag of cotton balls, glue, balloons, clay, and scissors.

Module	Lesson Title	Objectives
1	Earth and Sun Concepts	1. Learn about the earth's revolution around the sun.
	Phases of the Moon	1. Identify the phases of the moon. 2. Observe the effects of the moon's phases on nature. 3. Record observations.
	Devices to Tell Time	1. Identify various means of telling time. 2. Illustrate and describe clock devices.
2	The Role of Gravity	1. Explore the concept of gravity. 2. Write creatively in your Science Lesson Book.
	Plant Respiration and Relationships	1. Describe plant forms 2. Identify plant respiration 3. Discuss various ways plants and humans help each other
	Water Cycle: Evaporation	1. Identify steps in the water cycle. 2. Recognize how water evaporates. 3. Observe and record the rate at which water evaporates.

Module	Lesson Title	Objectives
3	Water Cycle: Condensation	<ol style="list-style-type: none"> <li>1. Identify the steps in the water cycle.</li> <li>2. Recognize the process of condensation.</li> <li>3. Observe and record findings of condensation.</li> </ol>
	Water Cycle: Precipitation	<ol style="list-style-type: none"> <li>1. Identify the steps of the water cycle.</li> <li>2. Recognize the process of precipitation.</li> <li>3. Diagram the complete water cycle.</li> </ol>
	Basics of Weather and Weather Patterns	<ol style="list-style-type: none"> <li>1. Observe daily weather and weather patterns.</li> <li>2. Construct a wind vane.</li> <li>3. Chart daily weather observations.</li> </ol>
4	Cloud Formation II	<ol style="list-style-type: none"> <li>1. Identify cloud formations.</li> </ol>
	Lightning and Electricity	<ol style="list-style-type: none"> <li>1. Explore the phenomenon of lightning.</li> <li>2. Simulate aspects of the static electricity in lightning.</li> </ol>
	Weather Extremes	<ol style="list-style-type: none"> <li>1. Identify extreme weather conditions.</li> <li>2. Illustrate hurricanes, tornadoes and blizzards.</li> </ol>
5	The Earth and Sun Relationship	<ol style="list-style-type: none"> <li>1. Trace the earth's revolution around the sun.</li> <li>2. Recognize how the earth's revolution around the sun applies to seasonal changes.</li> <li>3. Evaluate an experiment that illustrates the process of the earth's revolution.</li> </ol>
	Global Climate Zones	<ol style="list-style-type: none"> <li>1. Identify the five global climate zones.</li> <li>2. Illustrate the different climate zones.</li> </ol>
	Characteristics of Terrain on Earth	<ol style="list-style-type: none"> <li>1. Identify various types of terrain.</li> <li>2. Construct a clay diorama of local terrain.</li> <li>3. Label drawings of various types of terrain.</li> </ol>
6	Characteristics of Mountainous Regions	<ol style="list-style-type: none"> <li>1. Further discriminate mountainous regions.</li> <li>2. Locate the highest mountain ranges in various regions.</li> <li>3. Identify facts about local mountains.</li> </ol>

## 3<sup>rd</sup> Grade Science Semester A Syllabus

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Module	Lesson Title	Objectives
	Trees and Human Needs	<ol style="list-style-type: none"><li>1. Relate trees and their relationship and usefulness to humankind.</li><li>2. List objects that come from trees.</li><li>3. Create a collage of items that originated from trees.</li></ol>
	Types of Trees	<ol style="list-style-type: none"><li>1. Identify various types of trees.</li><li>2. Categorize different species of trees and leaves.</li></ol>

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