

**Course Description:**

In First Grade Science, students in this course will complete projects that are designed to allow for exploration and discovery. Students observe their surroundings and through observations of the natural world conduct inquiries into topics related to their healthy development.

**Materials needed:** Glue, Colored pencils or crayons, Flowers or plants for pressing, Blotting paper, Scissors, Old sheet or towel, Small dish or container, Watercolor paints, Tweezers, Wax paper, Iron, Pre-made calendar or available calendar, Empty milk carton, 1 Dowel (5" x 8"), Straw, Tape, 1 small pin or nail, Pencil with eraser, Outdoor thermometer, Compass, Blue construction paper, Cotton, 8 ½" x 11 papers, String

Module	Lesson Title	Objectives
1	Moon and Seasons	<ol style="list-style-type: none"> <li>1. Identify the various moon phases.</li> <li>2. Identify the patterns of summer.</li> </ol>
	Season Exploration	<ol style="list-style-type: none"> <li>1. Set up a Nature corner depicting the four seasons.</li> <li>2. Complete a leaf printing.</li> <li>3. Draw pictures representing the different seasons.</li> <li>4. Continue observing the phases of the moon.</li> </ol>
	Classifying Leaves	<ol style="list-style-type: none"> <li>1. Use simple tools to observe nature.</li> <li>2. Classify and arrange objects of nature.</li> </ol>
2	Role of Seeds	<ol style="list-style-type: none"> <li>1. Learn about seeds and the role they play in the life of a plant.</li> <li>2. Draw a picture of a plant with its root system.</li> <li>3. Collect and catalog seeds in scrapbook</li> </ol>
	Observing Animal Tracks	<ol style="list-style-type: none"> <li>1. Look at animal tracks in nature or in books.</li> <li>2. Compare track to footprints.</li> <li>3. Draw and label tracks.</li> </ol>
3	Birds in Nature	<ol style="list-style-type: none"> <li>1. Discover which birds live in the area.</li> <li>2. Draw pictorial representation of birds.</li> <li>3. Learn bird behavior during the seasons.</li> </ol>
	Basic Needs of Animals	<ol style="list-style-type: none"> <li>1. Consider animals' basic needs of food, water, air and shelter.</li> <li>2. Observe animals in nature.</li> <li>3. Draw animals.</li> <li>4. Build a bird house.</li> </ol>

Module	Lesson Title	Objectives
	Making a Weather Chart	<ol style="list-style-type: none"> <li>1. Understand the unpredictable nature of weather.</li> <li>2. Explore the concepts of north, south, east, and west.</li> <li>3. Make a wind vane and chart weather</li> </ol>
	Cloud Formation	<ol style="list-style-type: none"> <li>1. Observe cloud formations.</li> <li>2. Identify different cloud formations.</li> </ol>
4	Animals and Weather Change	<ol style="list-style-type: none"> <li>1. Observe the sensory experience of animals as they react to changes in the weather.</li> <li>2. Illustrate how animals prepare for winter months.</li> </ol>
	Living with Nature	<ol style="list-style-type: none"> <li>1. Observe the ways humans and nature support each other.</li> <li>2. Illustrate your observations.</li> <li>3. Identify ways you can help</li> </ol>
	Animal Adaptation	<ol style="list-style-type: none"> <li>1. Identify how local animals adapt to seasonal changes.</li> <li>2. Illustrate animal adaptations.</li> </ol>
5	Winter and Snow Formation	<ol style="list-style-type: none"> <li>1. Identify various winter activities around the world.</li> <li>2. Illustrate winter activities.</li> </ol>
	Comparing Tree Types	<ol style="list-style-type: none"> <li>1. Recognize deciduous and evergreen trees.</li> <li>2. Compare deciduous and evergreen trees.</li> </ol>
	Wild Animal Responses	<ol style="list-style-type: none"> <li>1. Explore wild animals and how they respond to the seasons.</li> <li>2. Observe and draw pictures that represent your observations.</li> </ol>
6	Concept of Hibernation	<ol style="list-style-type: none"> <li>1. Describe the idea of hibernation.</li> <li>2. Draw a picture representing hibernation.</li> <li>3. Compare human needs in winter to needs of hibernating animals.</li> </ol>
	Concept of Erosion	<ol style="list-style-type: none"> <li>1. Explore the concept of erosion.</li> <li>2. Illustrate the concept of erosion.</li> </ol>
	Constellations in the Night Sky	<ol style="list-style-type: none"> <li>1. Observe the night sky.</li> <li>2. Locate and identify various constellations.</li> <li>3. Illustrate constellations in Main Lesson Book.</li> </ol>