

	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Skills	<ul style="list-style-type: none"> <li>• Arrange objects by size</li> <li>• Sort &amp; group items</li> <li>• Identify and describe objects</li> </ul>	<ul style="list-style-type: none"> <li>• Serial order</li> <li>• Using non-standard units to measure length, area</li> <li>• Using standard units to measure area, weight</li> <li>• Using standard units to measure length, weight and capacity</li> <li>• Read a thermometer</li> </ul>	<ul style="list-style-type: none"> <li>• Collect and record results of various classroom studies in graphic form (tables, charts, graphs ...)</li> <li>• Use library resources to locate and collect data on a particular subject</li> <li>• Use newspapers to collect and record data</li> </ul>	<ul style="list-style-type: none"> <li>• Metric measurement</li> </ul>	<ul style="list-style-type: none"> <li>• Controlled studies</li> <li>• Scientific method</li> <li>• Microscope/hand lens/cells</li> <li>• Collecting, organizing data</li> </ul>	<ul style="list-style-type: none"> <li>• Knowledge of and use of the steps of the scientific method</li> <li>• Controlled studies: Vocabulary and completion of labs</li> <li>• Tools and strategies of science: <ul style="list-style-type: none"> <li>- classification charts</li> <li>- qualitative/quantitative observations</li> <li>- observation/inference</li> <li>- surface area of irregular</li> <li>- measuring by difference graduated cylinder triple balance beam scale</li> <li>- measurement metric accurate/estimated</li> </ul> </li> </ul> <p>TAUGHT IN CONJUNCTION WITH A UNIT ON FORCE AND MOTION</p>
Earth Science	<ul style="list-style-type: none"> <li>• View the various constellations</li> <li>• Introduce concepts of celestial bodies and their place in the universe</li> <li>• Describe seasonal changes</li> </ul>	<ul style="list-style-type: none"> <li>• Identify one constellation</li> <li>• Create their own star myth</li> </ul>	<ul style="list-style-type: none"> <li>• Record long-term changes which occur in nature over a specified period of time <ul style="list-style-type: none"> <li>- erosion, weathering</li> <li>- shadow lengths</li> <li>- phases of moon</li> <li>- effects of gravity</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Earth/moon/sun relationships</li> <li>• Constructive/destructive forces</li> <li>• Properties of rocks and minerals and testing properties of rocks</li> <li>• Investigating water cycles</li> <li>• Constellations</li> <li>• Indian legends for constellations</li> </ul>		<ul style="list-style-type: none"> <li>• Theory of plate tectonics <ul style="list-style-type: none"> <li>-Cycles/recycling</li> <li>-Layers of the earth</li> <li>-Movement</li> </ul> </li> <li>• Earthquakes <ul style="list-style-type: none"> <li>-Types</li> <li>-Causes/destruction</li> <li>-Technology</li> </ul> </li> <li>• Volcanoes <ul style="list-style-type: none"> <li>-Types/models</li> <li>-classification</li> <li>-Ring of Fire</li> </ul> </li> </ul>

	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
Physical Science	<ul style="list-style-type: none"> <li>• Properties of liquids, solids and gases</li> <li>• Group objects by attributes</li> </ul>	<ul style="list-style-type: none"> <li>• Describe various forms of energy and how they interact with different objects and the outside world</li> <li>• Buoyancy</li> <li>• Surface tension</li> </ul>	<ul style="list-style-type: none"> <li>• Record the conditions which cause changes in water from solid to liquid, liquid to gas, gas to liquid and liquid to solid</li> <li>• Diagram a variety of electrical circuits</li> <li>• Identify common solids as either conductors of electricity or non-conductors</li> </ul>		<ul style="list-style-type: none"> <li>• Powders, crystals</li> <li>• Colored solutions</li> <li>• Acids, bases</li> <li>• Density</li> <li>• Solubility</li> <li>• Light, sound</li> <li>• Energy, work and machines</li> </ul>	<ul style="list-style-type: none"> <li>• Electricity <ul style="list-style-type: none"> <li>- atoms, parts, charges</li> <li>- charges</li> <li>- circuits</li> </ul> </li> <li>• Electromagnets <ul style="list-style-type: none"> <li>- magnets</li> <li>- energy types and conversions</li> <li>- use of</li> <li>- construction of devices using electromagnets</li> <li>- energy conversions</li> </ul> </li> <li>• Other types: <ul style="list-style-type: none"> <li>- sound</li> <li>- light, solar</li> <li>- fiber optics</li> </ul> </li> <li>• Force and motion</li> </ul>
Life Science	<ul style="list-style-type: none"> <li>• Categorize living and non-living</li> <li>• Describe characteristics of plant and animal growth and interdependence</li> <li>• Identify environmental concerns</li> </ul>	<ul style="list-style-type: none"> <li>• Identify characteristics of non-living and living things</li> <li>• Identify characteristics of plants and animals</li> <li>• Describe general growth and development of common plants and animals</li> <li>• Compare the growth and development of common plants and animals</li> <li>• Associate plants and animals with their habitats</li> </ul>	<ul style="list-style-type: none"> <li>• Record the changes in an animal (butterfly) that exhibits multiple stages of development</li> <li>• Summarize data collected on two or more behaviors exhibited by an animal</li> <li>• Record changes that occur during the life cycle of a common plant</li> <li>• Compare similar structures and systems of common plants</li> </ul>	<ul style="list-style-type: none"> <li>• Characteristics of vertebrates and plant life</li> <li>• Skeletons of vertebrates</li> <li>• Effects of pollution on nature</li> <li>• Investigating cycles in nature</li> </ul>	<ul style="list-style-type: none"> <li>• Invertebrates <ul style="list-style-type: none"> <li>- characteristics</li> <li>- classification</li> </ul> </li> <li>• Human body <ul style="list-style-type: none"> <li>- label and identify parts of body systems</li> <li>- growing up: Our changing bodies</li> <li>- child abuse/abduction awareness</li> <li>- drug, alcohol awareness</li> <li>- immune system, AIDS</li> <li>- levels of defense</li> <li>- cell structure</li> </ul> </li> <li>• Plant Life</li> </ul>	<ul style="list-style-type: none"> <li>• Habitat, niche, population</li> <li>• Ecosystems <ul style="list-style-type: none"> <li>- interdependence - roles and relationships, including respiration and photosynthesis</li> <li>- food chains, webs</li> </ul> </li> <li>• Biomes <ul style="list-style-type: none"> <li>- endangered/extinct animals</li> <li>- types</li> <li>- adaptations</li> </ul> </li> <li>• Environmental resources and responsibilities: <ul style="list-style-type: none"> <li>- investigate environmental</li> </ul> </li> </ul>

	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6
					<ul style="list-style-type: none"> <li>- Classification: simplest to complex</li> <li>- Reproduction: self/cross pollination</li> <li>- Observation, manipulation, conclusion</li> <li>- Comparison of plants</li> <li>- Parts of a plant cell</li> <li>- Process of photosynthesis, phototropism</li> <li>- Life cycle of a plant</li> <li>- Parts of a plant</li> </ul>	<p>problems that can be alleviated through the actions of man:</p> <ul style="list-style-type: none"> <li>oil spills</li> <li>recycling</li> <li>energy consumption</li> </ul>