

	Animals		Plants	Rocks and Resources		Weather	Space	Chemistry	Physical	Human Body	
STRANDS	August	September	October	November	December	January	February	March	April	May	
Science Inquiry	<ul style="list-style-type: none"> -Demonstrate knowledge of scientific instruments and their uses: use magnifiers -Use data to produce a reasonable explanation to questions (ongoing) -Use the steps of the scientific method to conduct simple experiments 					<ul style="list-style-type: none"> -Demonstrate knowledge of scientific instru. and use: identify degrees on thermometer -Identify sensible measures for standard and metric units (in/yd, g/kg, cm/m, oz/pd). -Describe weather in measurable quantities such as temp., wind direction and speed, and precipitation. 		<ul style="list-style-type: none"> -Use the steps of the scientific method to conduct simple experiments 	<ul style="list-style-type: none"> -Demonstrate knowledge of scientific instrument and use: measure with rulers (cm and inch) 		
Life Science	<ul style="list-style-type: none"> -Recognize smaller parts of organisms are essential to well being -Examine object's characteristics to determine living/non-living -Describe how environments are affected by various kinds of pollution -Explain how animals depend on plants to meet their need for energy -Recognize organisms develop ability to reproduce as mature -Note similarities/differences between parents and offspring -Describe how organism changes as it matures (frog, butterfly) -Give examples of extinct organ. -Select animals found in specific environment -Identify sense used to collect specific info 	<ul style="list-style-type: none"> -Use magnifiers to study smaller parts of plant and identify functions -Use magnifiers to observe and describe when plant loses part (e.g. leaves, roots) -Explain how plants and animals depend on each other and non-living elements of environment to meet basic needs -Provide examples of differences among plants of same kind -Specify features that enable a plant or animal to survive in environment -Examine major parts of plants and determine their function (roots, stems, leaves, flowering plants) 									
Earth/Space Science				<ul style="list-style-type: none"> -Explain relationship between rocks and minerals-Identify a measurable property of a specific earth material -Identify common types of rocks (igneous, sedimentary, and metamorphic) -<i>Explain fossils as evidence about plants and animals from long ago</i> -Identify evidence used to determine that an organism previously existed -Match the organism to the evidence for its former existence -Identify materials and resources for reuse -Compare/contrast variety of landforms and bodies of water -<i>Explain environmental problems that vary from one community to another</i> -<i>Name major causes of land and air pollution</i> -Describe how environments are affected by various kinds of pollution 	<ul style="list-style-type: none"> -Compare cloud types with weather conditions -Explain how changes in temp, precip., wind speed/direction= different weather conditions -Use data to illustrate day's weather -State safety procedures for violent weather (tornado, hurricane, snow, flood) 	<ul style="list-style-type: none"> -Telescope is tool to observe distant obj. (choose approp. tool) -Planets are major feature of universe -Explain rotation (day & night -result) -Observe, identify, and order phases of moon -Describe solar system: composed of many objects that revolve around a star (Identify components) -<i>Identify the order of planets and their similarities and differences</i> -<i>Identify man-made satellites and uses</i> -<i>Identify gravity as force in relation to earth and objects in space</i> 					

<p>Physical Science</p>							<p>-Identify properties of three states of matter <u>-Classify materials by physical properties</u> -Order objects according to a specific property (longest to shortest, heaviest to lightest) -Select and use appropriate tools to observe and measure physical properties and materials (Weight and <u>Length</u>) -Identify an object when given its properties -Explain how materials change form, color or texture when mixed, separated, heated -Identify methods for separating mixtures -Analyze data to explain land, air, and water heating and cooling -Recognize magnets move objects without touching them</p>		<p><u>-Explain how sounds are produced</u> -Differentiate between pitch and volume -Predict the vol. of sound given a spec. source -Identify the illustration that demonstrates the effects of the sun on various materials -Describe relationship of force applied to distance object moves -Describe how changing position affects balanced system <u>-Recognize objects move differently on different surfaces</u> -Recognize magnets move objects without touching them -Intro., identify, demonstrate use of simple machines -Demonstrate how man uses machines to make work easier -Explain how machines are not only useful but can be dangerous to use.</p>
<p>Personal and Social Perspectives</p>	<p>-Explain environmental problems that vary form one community to another.</p>			<p>-Name major causes of land and <u>air pollution</u> -Explain environmental problems that vary form one community to another.</p>		<p>-State safety procedures for violent weather</p>			<p>-Identify parts and functions of digestive system -Explain importance of proper nutrition for growth</p>
<p>Related Literature</p>	<p>-<u>Monarch Butterfly</u> y by Gail Gibbons -<u>MSB – Gets Eaten</u> -<u>Dinosaurs to Dodos-An Encyclopedia of Extinct Animals</u> -<u>The Great Kapok Tree</u> -<u>Camouflage</u> -<u>Disguises & Surprises</u> -<u>Animal Defenses</u> -<u>Claws, Wings, & Other Neat Things</u> -<u>Amb er-The Golden Trap</u></p>	<p>-<u>MSB – Plants Seeds</u> -<u>From Seed to Plant</u> by Gail Gibbons -<u>The Pumpkin Book</u> by Gail Gibbons</p>	<p>-<u>Rocks and Minerals</u> by Edward Ricciuti -<u>The Wump World</u> by Bill Peet -<u>MSB – Inside the Earth</u> -<u>Let’s Go Rock Collecting</u> by Roma Gans</p>	<p>-<u>Weather Words</u> by Gail Gibbons -<u>MSB - Kicks Up a Storm</u> -<u>MSB at the Water Works</u> -<u>The Cloud Book</u> by Tomie de Paola -<u>Stormy Weather</u> -<u>Can it Rain Cats and Dogs?</u> -<u>Wild Weather A</u> Ranger Rick Big Book</p>	<p>-<u>Solar System Golden Book</u> -<u>Tour of the Planets A</u> Ranger Rick Big Book -<u>The Moon Book</u> by Gail Gibbons -<u>Matter A</u> Ranger Rick Big Book</p>	<p>-<u>Light</u> by Becky Olien -<u>Sound</u> by Becky Olien -<u>Electricity</u> by Becky Olien -<u>MSB – In the Haunted Museum</u> -<u>Levers</u> by Michael Dahl -<u>Pulleys</u> by Michael Dahl -<u>Wheels & Axles</u> by Michael Dahl -<u>Inclined Planes</u> by Michael Dahl -<u>MSB – Inside the Human Body</u></p>			

Technology	-Transparencies (on-going) -Windows on Science (on-going) -Mind Jogger Videos (on-going) -Extinct Animal Web Search -See How Things Grow video -Food Chain Web Search -Ice Age video	-How Plants Grow video			-MSB – Wet All Over video	-MSB – In the Solar System video -Motorized Solar System Model -MSB – Meets Molly Cule video	-MSB – Gets Charged video -MSB – Plays Ball video
Field Studies	-Research and Presentation of Extinct Animals -Zoo Fieldtrip/ZooMobile -Camouflage Activity -Human Rainforest Levels	-Planting Seeds Experiment (using Scientific Method) -3D Plant Models -Parts of a Plant Taste Testing -Observe plant parts with a magnifying glass -Pumpkin Patch fieldtrip	-Ron Wankel – Fossil Presentation -Shaving Cream Landforms -Rock Collections -Play Dough Fossils -Exploring Rocks Centers		-Thermometers & Temp. Experiment -Act Out Water Cycle -Analyze Weather Maps	-Act Out Revolve & Rotate -Rope Activity (3 states of matter) -Magnet Experiment	-Eggs Full of Sound Activity -How Far Objects Move Experiment -Amusement Park Rides (models & presentations) -Farm Day
Assessment	-Interpret Illustrations (on-going) -Teacher Made Unit Tests (on-going) -Observations (on-going) -Living/Nonliving Tree Map -Needs of Animals Circle Map -Vocabulary Flip Book -Butterfly Life Cycle- Pasta Flow Map -Vertebrate Flip Book (match parent to offspring) -Food Chain Models -Vertebrate/Invertebrate Color-Coded Tree Map	-Needs of Plants Circle Map -Parts of a Flowering Plant Model -How Seeds Travel Tree Map	-Common Types of Rocks Tree Map		-Brace Map Flip Book (what makes weather & how it is measured) -Water Cycle Flow Map -Cotton Ball Cloud Activity -Violent Weather Tree Map	-Solar System Models -Phases of the Moon Tab Top Book -Physical & Chemical Changes Tree Map	-Save Energy Posters -Who’s Doing Work? Flip Book -Simple Machines Tree Map -My Book of Simple Machines -Amusement Park Rides

Italics indicates objective is listed on system curriculum but not state.