## Science Pre K – 6 Scope and Sequence 2016 – 2017

Grade	September	October	November	December	January	February	March	April	Мау	June
PreK	All About Me/Exercise	Wheels		Balls		Boxes	Shadows	Trash/Recycling	Flowers	
<b>K</b> Integrated with SS. Focus on community.	Our Classroom/Our School  Characteristics of communities  Observations  Recording data  Change	<ul> <li>Patterns</li> <li>Changes in environment/organisms</li> <li>States of Matter: water</li> </ul>		<ul> <li>Transportation</li> </ul>	<ul><li>Transportation</li><li>Needs of the community</li><li>Signs and Symbols</li></ul>		Needs and Want in Our CommunityLiving Things in our CommunityCommunity • Community helpers • Community buildings • Community resources• Parts of living things • Senses of living things • Nutrition • Interactions		We Grow and Change in Our Community <ul> <li>Living things adapt to their environment</li> <li>Life cycles</li> <li>Offspring / Parent characteristics</li> <li>Physical change in our community</li> </ul>	
I	Scientific Process • Tools, vocabulary, • Data collection Life Science • Apple Lifecycle • Animal survival • Habitat Earth Science • Patterns: Sun, Moon, Stars • Seasons	Scientific Process <ul> <li>Tools, vocabulary, data collection</li> </ul> <li>Life Science <ul> <li>Pumpkin Lifecycle</li> </ul> </li>	<ul> <li>Scientific Process</li> <li>Tools, vocabulary, dat collection</li> <li>Life Science</li> <li>Habitat, Soil</li> <li>Earth Science</li> <li>Daylight Savings</li> </ul>	Scientific Process • Tools, vocabulary, data collection Life Science • Habitat Earth Science • Patterns: Sun, Moon, Stars • Seasons	Scientific Process • Tools, vocabulary, data collection Physical Science • Matter • Light, Sound, and Vocabulary	<ul> <li>Scientific Process</li> <li>Tools, vocabulary, data collection</li> <li>Physical Science</li> <li>Light and Sound</li> </ul>	<ul> <li>Scientific Process</li> <li>Tools, vocabulary, data collection</li> <li>Life Science</li> <li>Habitat</li> <li>Lifecycles (Frog and Toad)</li> <li>Compare adult vs. young plants/animals</li> <li>Earth Science</li> <li>Patterns: Sun, Moon, Stars</li> <li>Seasons</li> <li>Daylight Savings</li> </ul>	<ul> <li>Scientific Process</li> <li>Tools, vocabulary, data collection</li> <li>Life Science</li> <li>Habitat</li> <li>Lifecycles (Frog and Toad)</li> </ul>	<ul> <li>Scientific Process</li> <li>Tools, vocabulary, data collection</li> <li>Life Science</li> <li>Habitat</li> <li>Lifecycles (Frog and Toad)</li> </ul>	Scientific Process • Tools, vocabulary, data collection Life Science • Lifecycles (Frog, Toad and Plants) Earth Science • Patterns: Sun, Moon, Stars • Seasons • Soil
Z	Scientific Method • Role of scientist • Safety • Tools • Scientific method Structure and Properties of Matter • States of matter • Properties	Scientific Method • Tools, vocabulary, process Structure and Properties of Matter • Atoms • Molecule density • Molecule movement • Changing states (temp.)	Scientific Method • Role of scientist • Safety • Tools • Scientific method Structure and Properties of Matter • Mixtures • Physical/Chemical Changes Earth's Systems • Landforms/bodies of water	<ul> <li>Water on Earth</li> <li>Events that change the -Rapid changes, volcar</li> </ul>	Role of scientist Safety Fools Scientific method <b>th's Systems</b>			Scientific Method • Role of scientist • Safety • Tools • Scientific method Interdependent Relationships in Ecosystems • Plant life cycle • Interdependent relationships (plants & animals) • Habitats	Scientific Method • Role of scientist • Safety • Tools • Scientific method Interdependent Relationships in Ecosystems • Habitats satisfy needs • Diversity of life • Adaptation • Habitat Change	Scientific Method • Role of scientist • Safety • Tools • Scientific method Interdependent Relationships in Ecosystems • Habitat Change
5				ocabulary, data collection /Evaluating scientific solutions /Climate Instruments lection ycle	ry, data collection ting scientific solutions e hents hents • Tools, vocabulary, data collection • Creating/Evaluating scientific solutions Motion and Stability • Force/Motion • Gravity • Magnetism • Work			Scientific Process • Tools, vocabulary, data collection • Creating/Evaluating scientific solutions Vertebrates and Change over Time • Classification of Organisms • Ecosystems • Change over time • Adaptations		
4	<ul> <li>Scientific Method and Design</li> <li>Tools, vocabulary, data collection</li> <li>Scientific Method</li> <li>Labs/Investigations</li> <li>Design Loop Process</li> </ul>	Molecules to Organisms <ul> <li>Cells</li> <li>Classification</li> <li>Plants and animals grovies</li> <li>Structures supporting set Energy in ecosystems</li> <li>Abiotic and biotic interation</li> </ul>	<ul> <li>Respira</li> <li>Skeletal</li> <li>Muscula</li> <li>Digestiv</li> <li>Circulate</li> </ul>	Body Systems    Respiratory  Skeletal  Muscular  Digestive  Circulatory  Obtaining and processing information		Forces, Energy, Waves • Gravity • Motion • Light and Heat • Forms of energy • Energy conversion • Wave behavior	Weather and Erosion  • Weathering  • Erosion  • Impact on Earth's features  • Natural resource fuels  • Environmental effects  • Human Impacts			
	Scientific Method/Engineering Design • Tools, vocabulary, data collection • Scientific Method • Investigations/Labs • Design Loop Process	Engineering       Structure and Properties of Matter         • States         • States         • Physical/chemical changes         • Measurement         • Energy changes         • Structure of substances			Earth's Systems <ul> <li>Plate tectonics</li> <li>Geological succession</li> <li>Adaptation</li> <li>Geological time scale</li> <li>Technology</li> <li>Human Impact</li> </ul>		<ul> <li>Space and Space Technology</li> <li>Universe</li> <li>Solar System</li> <li>Forces that govern universe</li> <li>Space technology</li> </ul>	Ecosystems: Interactions, Energy, and Dynamic Energy flow in a community Biological communities Interactions/relationships Natural and human-made changes Lake Health Human Impacts		ommunity nities onships
6	<ul> <li>Scientific Practices</li> <li>Tools, vocabulary, data collection</li> <li>Scientific Method</li> <li>Process Skills</li> <li>Experimental Design</li> <li>Design Loop Process</li> </ul>	actices       Geoscience         cabulary, data       • Geological succession         • Time scales       • Rock cycle         • Rock composition       • Rock composition         • Layers of the earth       • Layers of the earth			Weather and Climate Systems     Space       • Wind currents     • Apple		of the Universe motion of sun n/rotation	Interacting Earth Systems/Human Impact • Earth's spheres • Interactions of spheres • Human Impact • Global environmental issues		npact