

**Kindergarten Science
Integrated with Social Studies
PISD Curriculum: Year at a Glance**

Overarching Themes: *Patterns *Cycles *Systems *Models *Change and Constancy		
Bundle	<i>Title</i> Enduring Understanding	Guiding Questions
1	<p><i>Taking Care of Ourselves through Safety Rules and Processes</i></p> <p>Personal health decisions and behaviors affect our quality of life.</p> <p>We use many science tools that have different functions.</p>	<p>What are some things we can do to keep us healthy?</p> <p>How can some tools help keep us safe?</p> <p>What are some tools we use to explore the world around us?</p>
2	<p><i>All About Me—What Makes Humans Special? / Science Notebooks</i></p> <p>Our body has many parts, each with an important, different function.</p> <p>Our 5 senses help us gather information about the world around us.</p>	<p>What are some major body parts and what do they do?</p> <p>How can we use our bodies to explore the world?</p> <p>Do we all use our bodies in the same way?</p>
3	<p><i>Communities Help Us Meet Needs and Wants / Pumpkins (life cycle)</i></p> <p>One way we meet our needs for food and nutrients is by growing and eating plants.</p> <p>Living things, such as plants, grow in predictable patterns, called life cycles.</p>	<p>What is the pattern for a plant that grows from a seed to an adult plant?</p> <p>Does the baby plant look like the adult plant?</p>
4 and 5	<p><i>How Natural Resources Help Me Meet My Needs.</i></p> <p>We can use materials from the earth in our every-day life.</p>	<p>What are Earth materials / natural resources?</p> <p>How do we use Earth materials?</p> <p>How would our world be different without these Earth materials?</p>
6	<p><i>Scientific Investigation and Reasoning</i></p> <p>Science is an ongoing cycle of questioning and problem solving.</p> <p>We ask certain questions to find out certain information.</p>	<p>How can I learn new things on my own?</p> <p>How can I use my senses and other tools to help me learn things?</p> <p>How can I gather information and organize it?</p>
7	<p><i>The Earth and Its Patterns / Weather and Seasons</i></p> <p>There are patterns in our natural world we can observe.</p> <p>Weather patterns can influence our daily decisions.</p>	<p>What do I see, hear, feel, taste and touch (carefully) around me outside?</p> <p>How are we affected by weather, natural resources, landforms, and bodies of water around us?</p> <p>Where can you observe some patterns in our natural world?</p> <p>What makes it a pattern?</p> <p>How often do these patterns repeat?</p>

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		<p>What would happen if these patterns stopped repeating?</p> <p>What choices do we make every day according to the patterns in nature?</p>
8	<p><i>Properties Matter</i></p> <p>All objects have properties that can be observed and measured.</p>	<p>What are some tools we use to measure with?</p> <p>What kinds of things (properties) can we observe and measure with our senses and other tools about organisms and objects?</p> <p>How do we know when to use the different tools?</p> <p>How do you know when to use the words: bigger, smaller, heavier, lighter, colder, warmer, etc.?</p>
9	<p><i>Matter and Energy</i></p> <p>Force, energy and motion exist in many forms and are used in our everyday lives.</p>	<p>How are some ways we move?</p> <p>What do see magnets doing?</p> <p>How do you see light, heat, or sound being used?</p>
10	<p><i>Structures of Organisms</i></p> <p>All animals and plants have different parts to help them survive.</p> <p>Plants go through change as they grow.</p>	<p>What are some different plant and animal parts?</p> <p>Do all plant parts with the same function look the same? (ex: not all roots look the same, but perform the same function)</p> <p>Do all animal parts with the same function look the same?</p> <p>Does the baby plant (seedling) look the same as an adult plant?</p> <p>What would happen if the plant/animal was missing a part?</p>
11	<p><i>Organisms and Environments</i></p> <p>Our earth consists of living and nonliving things.</p> <p>Living organisms have basic needs and depend on living and nonliving things to survive.</p> <p>We are responsible for the use and conservation of our natural resources.</p>	<p>What makes an object/organism living?</p> <p>What makes an object/organism nonliving?</p> <p>How do living organisms use other things to survive?</p> <p>What are basic needs?</p> <p>What are natural resources and what are some ways to conserve them?</p> <p>What are the implications of not conserving these natural resources?</p>
12	<p><i>Summer Science and Safety</i></p> <p>Exploration and asking questions will always be a way to learn and experience new things: even when “not in school”.</p>	<p>What should I remember in order to remain safe during summer and summer activities?</p>