

1st Grade Science
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>Safety / Notebooks / Processes</i></p> <p>Safety should always be considered when exploring, learning, and using various tools and equipment both inside and outside of the classroom.</p> <p>Notebooks help us organize our thoughts, data, and learning.</p> <p>Science is an ongoing cycle of questioning and problem solving.</p>	<p>Why do we need to be careful when we are doing classroom or outdoor investigations?</p> <p>How do we organize our thoughts, information, connections, and other data?</p> <p>What skills and tools do we use as scientists?</p>
2	<p><i>Natural Resources (rocks & soil)</i></p> <p>The natural world consists of materials that we use in our everyday life.</p> <p>The natural world includes rocks, soil, and water that can be observed in cycles, patterns, and systems.</p>	<p>How do we use natural materials, such as rocks, in our everyday lives?</p> <p>What observations can we make about different rocks in order to sort them?</p> <p>How are rocks reused?</p>
3	<p><i>Natural Resources (continue rocks & soil)</i></p> <p>The natural world consists of materials that we use in our everyday life.</p> <p>The natural world includes rocks, soil, and water that can be observed in cycles, patterns, and systems.</p>	<p>How do we use natural materials, such as soil, in our everyday lives?</p> <p>What observations can we make about different soils in order to sort them?</p> <p>How do we reuse and recycle soil?</p>
4	<p><i>Natural Resources (water)</i></p> <p>The natural world consists of materials that we use in our everyday life.</p> <p>The natural world includes rocks, soil, and water that can be observed in cycles, patterns, and systems.</p>	<p>How do we use natural materials, such as water, in our everyday lives?</p> <p>What observations can we make about different types of water?</p> <p>How can we sort different water samples? Example: by clarity, source, bodies of water, foggy.</p>
5	<p><i>Plants</i></p> <p>Plants have characteristics that allow their basic needs to be met.</p>	<p>What kinds of changes in plants can we observe over time?</p> <p>How can we help plants grow?</p> <p>How do we use plants?</p> <p>How are all plants alike and different?</p>

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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> <p>How can asking questions and finding the answers look differently depending on what I want to know?</p>
7	<p><i>Animals / Interdependence</i></p> <p>Animals have structures and processes that allow them to survive within their environment.</p> <p>Animals and plants depend on each other for their survival.</p>	<p>How do young animals resemble their parents?</p> <p>How do animal parts help animals survive in their environment?</p> <p>How do animals and plants help each other survive?</p> <p>What can we observe about the life cycles of animals?</p>
8	<p><i>Seasons & Weather (temperature and heat as they relate to seasons and weather)</i></p> <p>There are observable cycles, patterns and systems in the natural world.</p>	<p>What kind of patterns does weather have?</p> <p>What can we observe about weather?</p> <p>How does weather affect you?</p> <p>What do we notice as the seasons change?</p> <p>What do you observe about the sky?</p>
9	<p><i>Physical Properties and How Heat Energy Affects Them</i></p> <p>Objects can be sorted by their patterns and their properties.</p> <p>Properties can be changed by energy such as heat.</p>	<p>How does heat change different materials and objects?</p> <p>How can we classify different materials and objects?</p>
10	<p><i>Energy</i></p> <p>We use force, motion and energy in our everyday lives.</p>	<p>Why are light, heat, sound and magnetic force important to everyday life?</p> <p>How do we use different forms of energy?</p> <p>How does energy change materials?</p>
11	<p><i>Motion</i></p> <p>Objects and organisms can change location due to motion.</p> <p>Motion occurs in many forms.</p> <p>Magnets can cause motion.</p>	<p>How can organisms and object move?</p> <p>How can motion cause change?</p> <p>How do magnets cause objects to move?</p>
12	<p><i>Enrichment</i></p>	