

## First Grade Parent Guide - Science

	1 <sup>st</sup> Grading Period	2 <sup>nd</sup> Grading Period	3 <sup>rd</sup> Grading Period	4 <sup>th</sup> Grading Period
Topics	Objects Heat	Force and Motion Weather and Seasons	Earth Materials Living Things and Environments	Plants Animals
Focus TEKS	1.6ABC, 1.8AB	1.7AB, 1.9A, 1.10D	1.10ABC, 1.11ABC, 1.12ABC	1.12ABC, 1.13ABC
<p>What observable properties can we use to classify objects?</p> <p>What happens to various materials when they are heated or cooled?</p>	<p><b>Scientific Investigation &amp; Reasoning</b></p> <ul style="list-style-type: none"> <li>Ask questions and define problems based on observations.</li> <li>Communicate explanations and solutions.</li> </ul> <p><b>Content</b></p> <ul style="list-style-type: none"> <li>Classify Objects</li> <li>Changes from Heat</li> <li>Objects are a system made of parts that can be taken apart and put back together.</li> </ul> <p><b>Performance Task</b></p> <ul style="list-style-type: none"> <li>Sorting objects based on characteristics.</li> </ul>	<p><b>Scientific Investigation &amp; Reasoning</b></p> <ul style="list-style-type: none"> <li>Identify and discuss how different forms of energy such as light, thermal, and sound are important to everyday life</li> <li>Identify characteristics of the seasons of the year and day and night</li> <li>demonstrate that air is all around us and observe that wind is moving air</li> </ul> <p><b>Content</b></p> <ul style="list-style-type: none"> <li>Forms of Energy</li> <li>Patterns of Movement</li> <li>Weather</li> <li>Seasons/Day and Night</li> </ul> <p><b>Performance Task</b></p> <ul style="list-style-type: none"> <li>Force, Motion, and Energy.</li> </ul>	<p><b>Scientific Investigation &amp; Reasoning</b></p> <ul style="list-style-type: none"> <li>Investigate and predict cause and effect relationships in science.</li> <li>Use scientific tools to observe, measure, test and compare.</li> </ul> <p><b>Content</b></p> <ul style="list-style-type: none"> <li>Soil components</li> <li>Properties of water</li> <li>Movement of Earth Materials</li> <li>Using and saving Earth Materials.</li> </ul> <p><b>Performance Task</b></p> <ul style="list-style-type: none"> <li>Soil and water properties</li> <li>The importance of Earth Materials to everyday life.</li> </ul>	<p><b>Scientific Investigation &amp; Reasoning</b></p> <ul style="list-style-type: none"> <li>Describe the relationship between structure and function of objects, organisms, and systems.</li> <li>Observe and compare plant animal life cycles.</li> </ul> <p><b>Content</b></p> <ul style="list-style-type: none"> <li>Living and non-living things</li> <li>Environments</li> <li>Food Chains</li> <li>Animal Structures</li> <li>Parents and their Young</li> <li>Animal Life Cycles</li> </ul> <p><b>Performance Task</b></p> <ul style="list-style-type: none"> <li>Identify and describe the parts of a life cycle.</li> </ul>
Fundamental Questions		<ul style="list-style-type: none"> <li>How can we explore how objects change location and the different ways and patterns that objects move?</li> <li>How can we describe and record changes in weather?</li> <li>What are the different characteristics of the seasons of the year?</li> </ul>	<ul style="list-style-type: none"> <li>How can a hand lens help you identify a type of soil?</li> <li>What are some properties of soil?</li> <li></li> </ul>	<ul style="list-style-type: none"> <li>How are animal characteristics helpful for their survival within their habitat?</li> <li>How does energy travel through the food chain?</li> </ul>
Suggestions for Parental Involvement/Support	<ul style="list-style-type: none"> <li>Sort household objects by their different properties</li> <li>Observe how adding and taking away heat can change different materials</li> </ul>	<ul style="list-style-type: none"> <li>Using marbles or balls practice making different types of movement - in a straight line, zig zag, up and down, back and forth, round and round, and fast and slow</li> <li>Make a weather journal and track the different types of weather.</li> </ul>	<ul style="list-style-type: none"> <li>Discuss the importance of protecting Earth Materials.</li> <li>Point out places where the Earth's surface is moving and changing. Discuss.</li> </ul>	<ul style="list-style-type: none"> <li>Create a food chain to show how energy travels through the food chain.</li> <li>Choose a plant or animal and make a list of what that organism needs to survive.</li> </ul>

