



Second Grade Curriculum Pacing Guide

Crosscutting Concepts: Matter and Energy; Stability and Change

Topics: Matter

Estimated Time: 8 weeks

Anchoring Phenomena	Standard	Instructional Segment	Disciplinary Core Ideas	Science and Engineering Practices	Instructional Notes
<p>Hot Spring * (has all states of matter in evidence)</p> <p>Hot air balloons/weather balloons</p>	S2P1.a, b, c	<p>What is Matter and How Does it Change?</p>	<p>From A Framework for K-12 Science Education: By the end of grade 2</p> <p>PS1A: Structure and properties of matter.</p> <ul style="list-style-type: none"> Different kinds of matter exist (e.g., wood, metal, water), and many of them can be either solid or liquid, depending on temperature. Matter can be described and classified by its observable properties (e.g., visual, aural, textural), by its uses, and by whether it occurs naturally or is manufactured. Different properties are suited to different purposes. A great variety of objects can be built up from a small set of pieces (e.g., blocks, construction sets). Objects or samples of a substance can be weighed, and their size can be described and measured. <p>PS1B: Chemical Reactions</p> <ul style="list-style-type: none"> Heating or cooling a substance may cause changes that can be observed. Sometimes these changes are reversible (e.g., melting and freezing), and sometimes they are not (e.g., baking a cake, burning fuel). 	<ul style="list-style-type: none"> Asking questions and defining problems Planning and carrying out investigations Constructing explanations and designing solutions Obtaining, evaluating, and communicating information Analyzing and interpreting data 	<p>Background:</p> <p>By the end of this unit, students are using the following language in their speaking and writing during EXPLAIN or ELABORATE.</p> <ul style="list-style-type: none"> Matter States of Matter Properties Color Mass Length Texture Hardness Strength Absorbency Flexibility Structure Reversible Irreversible

This instructional segment will connect to how plants, animals and weather can change the environment.