



Third Grade Curriculum Pacing Guide

Crosscutting Concepts: Structure and Function; Cause and Effect; Systems and System Models; Energy and Matter

Topics: Life on Earth and Heat

Estimated Time Instructional Segment: 14 weeks

Anchoring Phenomenon	Standard	Instructional Segment	Disciplinary Core Ideas	Science and Engineering Practices	Instructional Notes
Project the Map of the Cities in Georgia onto the board at the front of the room. Place students into small groups of 3-4, making sure that you have at least five groups so that all the geographic regions are studied. Allow the groups to each select a different geographic region, and then pick two cities from that region to research.	S3L1. a, b, c S3P1. a, b, c	Under the Sun	<p>From <i>A Framework for K-12 Science Education</i>:</p> <p>LS1.A Structure and Function Plants and animals have both internal and external structures that serve various functions in ... survival....</p> <p>LS4.C Adaptation Changes in an organism’s habitat are sometimes beneficial to it and sometimes harmful. For any particular environment, some kinds of organisms survive well, some survive less well, and some cannot survive at all.</p> <p>PS3B. Conservation of Energy and Energy Transfer Energy is present whenever there are moving objects, sound, light, or heat.</p>	<ul style="list-style-type: none"> • Planning and carrying out investigations • Asking questions and defining problems • Constructing explanations and designing solutions • Obtaining, evaluating, and communicating information 	<p>Background: Adaptations help an animal to survive in their environment. An animal cannot willingly change their physical appearance. Adaptations happen slowly over time, as animals with the adaptation survive and give birth to offspring with the same adaptation. Adaptations can include physical features (webbed feet, scales), camouflage (blending in with the surroundings, either through color or body shape), mimicry (appearing to look like another organism), migration (moving to another area, or hibernation (sleeping for an extended period of time).</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">● Similarities● Differences● Camouflage● Hibernation● Migration● Mimicry● Survival● Internal● External● Functions● Environment● Organisms● Heat● Temperature● Fahrenheit● Celsius● Absorb
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This instructional segment will connect to Pollution and Conservation. Students will use what they know about Georgia Regions to begin to understand how pollution can affect plants and animals and what students can do to conserve resources.