



## Second Grade Curriculum Pacing Guide

**Crosscutting Concepts:** Stability and Change, Patterns, Cause and Effect  
**Topics:** Plant and Animal Life Cycles, Pollination, Environmental Changes

Estimated Time: 6 Weeks

Anchoring Phenomenon	Standard	Instructional Segment	Disciplinary Core Ideas	Science and Engineering Practices	Instructional Notes
Animal bodies collect and transfer pollen from one flower to another.	<b>S2L1</b> a, b, c, d <b>S2E3</b> a, b	<b>Stability and Change in Plants and Animals</b>	From <a href="#">A Framework for K-12 Science Education</a> :  <i>By the end of grade 2</i> <b>LS1A: Structure and Function</b> <ul style="list-style-type: none"> <li>● Plants also have different parts (roots, stems, leaves, flowers, fruits) that help them survive, grow, and produce more plants.</li> </ul> <b>LS1B: Growth and Development of Organisms</b> <ul style="list-style-type: none"> <li>● Plants and animals have predictable characteristics at different stages of development. Plants and animals grow and change. Adult plants and animals can have young.</li> <li>● Plants and animals have unique and diverse life cycles that include being born (sprouting in plants), growing, developing into adults, reproducing, and eventually dying.</li> </ul> <b>LS2A: Interdependent Relationships in Ecosystems</b> <ul style="list-style-type: none"> <li>● Animals can move around, but plants cannot, and they often depend on animals for pollination or to move their seeds around.</li> </ul> <b>LS2C: Ecosystem Dynamics, Functioning,</b>	<ul style="list-style-type: none"> <li>● Asking questions and defining problems</li> <li>● Developing and using models</li> <li>● Planning and carrying out investigations</li> <li>● Constructing explanations and designing solutions</li> <li>● Obtaining, evaluating, and communicating information</li> </ul>	Background: By the end of this unit, students are using the following language in their speaking and writing during EXPLAIN or ELABORATE. <ul style="list-style-type: none"> <li>● Plants</li> <li>● Animals</li> <li>● Roots</li> <li>● Stems</li> <li>● Leaves</li> <li>● Flowers</li> <li>● Life cycle</li> <li>● Seeds</li> <li>● Grow</li> <li>● Pollinate</li> </ul>



			<p><b>and Resilience</b></p> <ul style="list-style-type: none"><li>• The places where plants and animals live often change, sometimes slowly and sometimes rapidly.</li></ul> <p><b>LS2C: Ecosystem Dynamics, Functioning, and Resilience</b></p> <ul style="list-style-type: none"><li>• The places where plants and animals live often change, sometimes slowly and sometimes rapidly.</li></ul> <p><b>ESS2E: Biogeology</b></p> <ul style="list-style-type: none"><li>• Plants and animals (including humans) can change their environment (e.g. the shape of the land, the flow of water.)</li></ul> <p><b>ESS3C: Human Impacts on Earth Systems</b></p> <ul style="list-style-type: none"><li>• Things that people do to live comfortably can affect the world around them.</li></ul>		
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