

## First Grade Curriculum Pacing Guide Plants and Animals through the Year

Crosscutting Concepts: Cause and Effect, Patterns, Systems and Systems Models

**Topics:** Parts of a plant, basic needs of plants and animals, weather

Estimated Time: 24 weeks or year-long segment

Anchoring Phenomenon	Standards	Instructional Segment	Disciplinary Core Ideas	Science and Engineering Practices	Instructional Notes
Plants and animals change depending on seasons and weather conditions.  Time Lapse video of Trees through a Year in 40 Seconds	S1L1.a, b, c S1E1.a, b, c, d	Plants and Animals through the Year	From A Framework for K-12 Science Education: By the end of grade 2  LS1.A Structure and Function  • Plants have different parts (roots, stems, leaves, flowers, fruits) that help them survive, grow, and produce more plants.  LS1.B Growth and Development of Organisms  • Plants and animals grow and change. LS1.C Organization for Matter and Energy Flow in Organisms  • All animals need food in order to live and grow.  • Plants need water and light to live and grow.  LS2.A Interactions, Energy, and Dynamics  • Animals depend on their surroundings to get what they need, including food, water and shelter.  • Plants depend on air, water and light	Asking questions and defining problems  Planning and carrying out investigations  Analyzing and interpreting data  Constructing explanations and designing solutions  Obtaining, evaluating, and communicating information	By the end of this unit, students are using the following language in their speaking and writing during EXPLAIN or ELABORATE:  • Root • Stem • Leaf • Flower • Air • Water • Food • Shelter • Nutrients • Light • Basic needs • Temperature • Precipitation • Solid • Liquid • Thermometer • Wind Vane • Rain Gauge



Transfer in Ed  Organis to grow environ LS2.C Ecosys and Resilience  When penough die.  PS1.A Structu  Differe wood, penough them can depend ESS2.C The Benous Surface Proce  Water of form. ESS2.D Weath wind, sent a partice People	• Weather Events • Sky Conditions • Rain • Snow • Sleet • Hail • Hail • Weather Events • Sky Conditions • Rain • Snow • Sleet • Hail • Hail • Hail • Weather Events • Sky Conditions • Rain • Snow • Sleet • Hail
---	--

This segment connects to Sound and Light since plants and animals need light and make sounds.