



4th Grade Lessons Offered

Lesson Title & Description	Standards	FOSS Correlation	Lesson Length	Season, Location & Special Requirements	No. of Garden Parents
<p><i>California Native Uses of Plants (Ethnobotany):</i></p> <p>This lesson compliments the 4th grade Social Studies topic of California Indians. Students will learn about various plants that the Indians used for food, housing, baskets, medicine, tools, and other items and how plants were crucial to the survival of Native Californians and identify many of the plants in their school's own native plant garden. Students gain hands-on experience with the plant material and make simple items.</p>	<p>CA State History- Social Studies Standard:</p> <p>4.2.1 Discuss the major nations of California Indians, including their geographic distribution, economic activities, legends, and religious beliefs; and describe how they depended on, adapted to, and modified the physical environment by cultivation of land and use of sea resources.</p>		<p>One Session, 75 Minutes</p>	<p><i>Fall</i> <i>Date-Range:</i> From: 9/13/16 Through: 12/16/16</p> <p>Indoors and Outdoors</p> <p><u>Requirement:</u> Access to school native habitat gardens is necessary.</p>	<p>2 Garden Parents Needed</p>

Lesson Title & Description	Standards	FOSS Correlation	Lesson Length	Season, Location & Special Requirements	No. of Garden Parents
<p><i>Symmetry in Fruit:</i></p> <p>During this lesson, students gain a deeper understanding of symmetry through hands-on dissection of various types of fruit. They also practice observational skills.</p>	<p>CCSS for Mathematics:</p> <p>4.G 3</p> <p>Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts. Identify line-symmetric figures and draw lines of symmetry.</p>		<p>One Session, 60 Minutes</p>	<p><i>Winter</i> <i>Date-Range:</i> From: 1/3/17 Through: 3/31/17</p> <p>Indoors or Outdoors</p>	<p>2 Garden Parents Needed</p>

Lesson Title & Description	Standards	FOSS Correlation	Lesson Length	Season, Location & Special Requirements	No. of Garden Parents
<p><i>Sustainability on the Ground:</i></p> <p>Students learn about the meaning of sustainability and apply it to a garden by considering how garden waste (output) can be recycled back into the garden as an input. The importance of beneficial insects, compost, and water conservation are also covered. Students plant beneficial insect attracting plants at approved locations on their school campus.</p>	<p>Next Generation Science Standard:</p> <p>4-LS1 From Molecules to Organisms: Structures & Processes</p> <p>Framework for K-12 Science Education:</p> <p>Science & Engineering Practices Developing and Using Models --Use a model to test interactions concerning the functioning of a natural system.</p> <p>Disciplinary Core Ideas LS1.D Information Processing</p> <p>Crosscutting Concepts Systems and System Models --A system can be described in terms of its components and their interactions.</p>	<p>FOSS Module <i>Living Systems</i></p>	<p>One Session, 60 Minutes</p>	<p>Winter Date-Range: From: 1/3/17 Through: 3/31/17</p> <p>Outdoors</p> <p>Requirement: Access to the school's edible garden</p>	<p>2 garden parents</p>

Lesson Title & Description	Standards	FOSS Correlation	Lesson Length	Season, Location & Special Requirements	No. of Garden Parents
<p>Leaf Adaptations:</p> <p>Students will collect and observe different leaves, identify leaf characteristics, and how those characteristics (adaptations) aide in survival. They will also participate in a group discussion to show that adaptations in physical structure may improve a plant's chance for survival.</p> <p>Habitat Perspectives:</p> <p>Students demonstrate observation and description skills as they investigate and examine what lives within a schoolyard microhabitat. They practice relating the physical conditions of a habitat to what lives there.</p>	<p>Next Generation Science Standard:</p> <p>4-LS1-1</p> <p>Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.</p> <p>Framework for K-12 Science Education:</p> <p>Science & Engineering Practices Developing and Using Models --Use a model to test interactions concerning the function of a system.</p> <p>Disciplinary Core Ideas LS1.D: Information Processing</p> <p>Crosscutting Concepts Systems and System Models --A system can be described in terms of its components and their interactions.</p> <p>Framework for K-12 Science Education:</p> <p>Science&Engineering Practices: Developing and Using Models - Use a model to test interactions concerning the function of a system. Disciplinary Core Ideas LS1.D: -Information Processing Crosscutting Concepts Systems Models - A system can be described in terms of its components and their interactions.</p>	<p>FOSS Module & Investigation Correlation: Environments Module Terrestrial Environments & Isopods and Beetles Investigations</p> <p>FOSS Module & Investigation Correlation: Environments Module Terrestrial Environments & Isopods and Beetles Investigations</p>	<p>One Session, 60 Minutes</p> <p>One Session, 60 Minutes</p>	<p>Spring Date-Range From: 4/10/17 Through: 6/1/17</p> <p>Outdoors</p> <p>Spring Date-Range: From: 3/29/2016 Through: 6/3/2016 Indoors and Outdoors Students will use Native Plant Gardens or other more natural areas of the campus for this lesson</p>	<p>3 garden parents</p> <p>2 Garden Parents</p>

--	--	--	--	--	--