



# 1st Grade Lessons Offered

Lesson Title & Description	Standards	FOSS Correlation	Lesson Length	Season, Location & Special Requirements	No. of Garden Parents
<p><b><i>Food Factories:</i></b></p> <p>Students are introduced to the concept of photosynthesis and the vital part that plants play in the food chain. During this lesson, students plant seedlings and snack on edible plant parts and measure the growth of their plants several weeks later.</p>	<p><b>Next Generation Science Standards:</b>  <b>1-LS1-1.</b> Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs</p> <p><b>Framework for K-12 Science Education</b></p> <p><b>Science &amp; Engineering Practices</b>            --Constructing Explanations &amp; Designing Solutions            --Obtaining, Evaluating, &amp; Communicating Information</p> <p><b>Disciplinary Core Ideas</b>  <b>LS1.A:</b> Structure &amp; Function  <b>LS1.B:</b> Growth &amp; Development of Organisms  <b>LS1.D:</b> Information Processing</p> <p><b>Crosscutting Concepts</b></p> <ul style="list-style-type: none"> <li>• Patterns</li> <li>• Structure &amp; Function</li> </ul>	<p>FOSS <i>Plants and Animals Module</i></p> <p>“Stems”            &amp;            “Terrariums”            Investigations</p>	<p>One session, 60 Minutes</p>	<p><b>Fall Date-Range:</b>            From: 9/13/16            Through: 10/28/16</p> <p>Indoors &amp; Outdoors</p> <p><b>Requirement:</b>            This is a planting lesson, therefore cleared out space is needed for this lesson done by Living Classroom staff. A planter box or designated area in a school garden works well.</p>	<p>2 Garden Parents needed</p>

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<p><b><i>Animal Homes:</i></b></p> <p>Students examine the structure and function of various animal homes and conduct an outdoor search for animal homes around the garden and school grounds.</p>	<p><b>Next Generation Science Standards:</b>  <b>1-LS1-1.</b> Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs</p> <p><b>Framework for K-12 Science Education</b></p> <p><b>Science &amp; Engineering Practices</b>  --Constructing Explanations &amp; Designing Solutions  --Obtaining, Evaluating, &amp; Communicating Information</p> <p><b>Disciplinary Core Ideas</b>  <b>LS1.A:</b> Structure &amp; Function  <b>LS1.B:</b> Growth &amp; Development of Organisms  <b>LS1.D:</b> Information Processing</p> <p><b>Crosscutting Concepts</b></p> <ul style="list-style-type: none"> <li>• Patterns</li> <li>• Structure &amp; Function</li> </ul>	<p>FOSS <i>Plants and Animals Module</i></p> <p>“Terrariums” Investigation</p>	<p>One Session, 60 Minutes</p>	<p><b>Fall Date-Range:</b>  From: 9/13/16  Through: 12/16/16</p> <p>Indoor and Outdoor</p>	<p>2 Garden Parents Needed</p>

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<p><b><i>Growing Vegetable Soup:</i></b> Students harvest the vegetables they have grown in their planter boxes and learn about what made the vegetables grow. They prepare the vegetables and cook a vegetable soup that they eat together at the end of the lesson. This lesson should follow the Food Factories lesson and occur when vegetables are ready to harvest.</p>	<p><b>Next Generation Science Standards:</b> <b>1-LS1-1.</b> Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs</p> <p><b>Framework for K-12 Science Education</b></p> <p><b>Science &amp; Engineering Practices</b> --Constructing Explanations &amp; Designing Solutions --Obtaining, Evaluating, &amp; Communicating Information</p> <p><b>Disciplinary Core Ideas</b> <b>LS1.A:</b> Structure &amp; Function <b>LS1.B:</b> Growth &amp; Development of Organisms <b>LS1.D:</b> Information Processing</p> <p><b>Crosscutting Concepts</b></p> <ul style="list-style-type: none"> <li>• Patterns</li> <li>• Structure &amp; Function</li> </ul>	<p>Plants and Animals Module</p> <p>Stems and Terrariums Investigations</p>	<p>75 Minutes</p>	<p><b>Winter Date-Range:</b> From: 1/3/17 Through: 2/24/17</p> <p>Indoors &amp; Outdoors</p> <p><b><u>Requirement:</u></b> This lesson uses the vegetables planted during the Food Factories lessons. It should be scheduled 9 to 14 weeks after Food Factories. Thus, if Food Factories is scheduled in September or October, you should plan to do Growing Vegetable Soup in January. If Food Factories is in October, Growing Vegetable Soup should be scheduled in February.</p>	<p>4 Garden Parents Needed</p>

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<p><b>Garden Tea:</b></p> <p>Students gather herbs from the garden to make delicious tea. While comparing tea strength, students learn about how light can pass through certain objects. Students also learn more about tea traditions around the world.</p>	<p><b>Next Generation Science Standards:</b>  <b>1-PS4-3.</b> Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light.</p> <p><b>Framework for K-12 Science Education</b></p> <p><b>Science &amp; Engineering Practices</b>  Construction Explanations and designing solutions: Make observations (firsthand or from media) to construct an evidence-based account for natural phenomena (1-PS4-2). Use tools and materials provided to design a device that solves a specific problem. (1-PS4-4)</p> <p><b>Disciplinary Core Ideas</b>  PS4.B: Electromagnetic Radiation: Some materials allow light to pass through them, others allow only some light through and others block all the light and create a dark shadow on any surface beyond them, where the light cannot reach.</p> <p><b>Crosscutting Concepts</b>  Cause and Effect  Simple tests can be designed to gather evidence to support or refute student ideas about causes. (1-PS4-1),(1-PS4-2),(1-PS4-3)</p>	<p>FOSS <i>Plants and Animals Module</i></p>	<p>One session, 60 minutes</p>	<p><b>Winter Date-Range:</b>  From: 1/3/17  Through: 3/31/17</p> <p>Indoors and Outdoors</p> <p><b>Requirement:</b>  Lesson takes place in the school Native Plant Garden</p>	<p>2-3 garden parent needed</p>

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<p><b><i>The Best Nest:</i></b></p> <p>Students survey a variety of different nests and work to build bird nests from natural materials found around the school campus.</p>	<p><b>Next Generation Science Standards:</b>  <b>1-LS1-2.</b> Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive.</p> <p><b>Framework for K-12 Science Education</b></p> <p><b>Science &amp; Engineering Practices</b>  --Constructing Explanations &amp; Designing Solutions   --Obtaining, Evaluating, &amp; Communicating Information</p> <p><b>Disciplinary Core Ideas</b>  <b>LS1.A:</b> Structure &amp; Function  <b>LS1.B:</b> Growth &amp; Development of Organisms  <b>LS1.D:</b> Information Processing</p> <p><b>Crosscutting Concepts</b></p> <ul style="list-style-type: none"> <li>• Patterns</li> <li>• Structure &amp; Function</li> </ul>	<p>FOSS <i>Plants and Animals Module</i></p> <p>“Terrariums” Investigation</p>	<p>One Session,  60 minutes</p>	<p><b>Winter Date-Range:</b>  From: 1/3/17  Through: 3/31/17</p> <p>Indoors &amp; Outdoors</p>	<p>2 garden parents</p>

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<p><b>What's My Habitat?</b></p> <p>First graders participate in a garden-based scavenger hunt during which they discover mutualistic relationships between various plants and animals in the native plant garden.</p>	<p><b>Next Generation Science Stds:</b>  <b>1-LS1-1.</b> Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs.</p> <p><b>Framework for K-12 Science Education</b>  <b>Science &amp; Engineering Practices</b>  --Constructing Explanations &amp; Designing Solutions  --Obtaining, Evaluating, &amp; Communicating Information</p> <p><b>Disciplinary Core Ideas</b>  <b>LS1.A:</b> Structure &amp; Function  <b>LS1.B:</b> Growth &amp; Development of Organisms  <b>LS1.D:</b> Information Processing</p> <p><b>Crosscutting Concepts</b></p> <ul style="list-style-type: none"> <li>• Patterns <ul style="list-style-type: none"> <li>Structure &amp; Function</li> </ul> </li> </ul>	<p>FOSS <i>Plants and Animals Module</i></p> <p>“Terrariums” Investigation</p>	<p>60 Minutes</p>	<p><b>Spring Date-Range:</b>  From: 4/10/17  Through: 6/1/17</p> <p>Indoors &amp; Outdoors</p> <p><b>Requirement:</b>  Lesson takes place in the school Native Plant Garden</p>	<p>2 Garden Parents Needed</p>

