

# Window Garden

<b>Grade Level:</b> K-2 <sup>nd</sup>	<b>Topic:</b> Seeds, plant cycle	<b>Estimated Time:</b> 30 minutes
<p><b>Brief Lesson Description:</b> Students will identify and label the parts of a plant including roots, stem, leaves, and flowers as well as the steps in a plant’s life cycle from seed through growth to germination. Then, students will plant their own “window garden” to take home and make observations as the seed begins the plant cycle. Throughout the lesson, students will work to identify the role a farmer plays in raising plants on a larger scale to provide food, fiber and fuel.</p>		
<p><b><u>Next Generation Science Standards:</u></b> <b>Performance Expectation(s):</b> <b>K-LS1-1:</b> Use observations to describe patterns of what plants and animals (including humans) need to survive. <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     <b>LS1.A:</b> Structure and Function: All organisms have external parts. Different animals use their body parts in different ways to see, hear grasp objects, protect themselves, move from place to place and seek, find and take in food, water and air. Plants also have different parts (roots, stems, leaves, flowers, fruits) that help them survive and grow. <b>1-LS3-1:</b> Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents. <b>2-LS2-1:</b> Plan and conduct an investigation to determine if plants need sunlight and water to grow.</p> <p><b><u>National Agricultural Literacy Outcomes:</u></b> <b>T1. K-2 a:</b> Describe how farmers/ranchers use land to grow crops and support livestock. <b>T1. K-2 b:</b> Describe the importance of soil and water in raising crops and livestock. <b>T2. K-2 c:</b> Identify examples of feed/food products eaten by animals and people. <b>T2. K-2 e:</b> Identify the importance of natural resources (e.g., sun, soil, water, minerals) in farming. <b>T3. K-2 b:</b> Recognize that agriculture provides our most basic necessities: food, fiber (fabric or clothing), energy, and shelter. <b>T5. K-2 a:</b> Discuss what a farmer does.</p>		
<p><b>Specific Learning Outcomes:</b></p> <ol style="list-style-type: none"> <li>1. Identify the plant parts.</li> <li>2. Identify what a seed needs to germinate.</li> <li>3. Label the steps of a plant’s life cycle.</li> <li>4. Recognize the role farmers play in growing seeds, harvesting and maintaining a plant’s life cycle.</li> <li>5. Name two careers that work with seeds and plants.</li> </ol>		