

# Virginia AITC Garden Lessons: Objectives & SOL Correlations

| Lesson Title                           | SOL   | Objectives  |
|--|---|---|
| <b>America's Container Garden</b>      | <b>Science</b> K.1, K.7, K.9, 1.1, 1.4, 2.1, 2.4, 2.8, 3.1, 3.8, 4.1, 4.4   | Plant containers of red, white, and blue annuals to be displayed at the entrance to their school  |
| <b>Become a Landscape Designer</b>     | <b>Math</b> 2.11, 2.17, 3.9, 3.17, 4.7, 4.14, 5.8<br><br><b>English</b> 2.2, 2.3, 2.11, 2.12, 2.13, 2.14, 3.1, 3.2, 3.8, 3.9, 3.10, 3.11, 3.12, 4.1, 4.2, 4.7, 4.8, 4.9, 5.2, 5.7, 5.8, 5.9<br><br><b>Visual Arts</b> 2.5, 2.8, 2.9, 2.10 | Measure designated garden plot<br><br>Draw beginning and ending plot (to scale if possible)<br><br>Create theme for garden plot<br><br>Research appropriate plants<br><br>Write a garden plot report<br><br>Construct three-dimensional garden plot display<br><br>Present an oral report |
| <b>Bug Sucker</b>                      | <b>Science</b> K.1, K.2, K.4, 1.1, 2.1, 2.5, 3.1, 3.4, 3.5, 4.1, 4.5, 5.1, LS.1, LS.9<br><br><b>Math</b> 3.17, 3.19, 4.14   | Get up close and personal with some of nature's smallest creatures, construct a simple aspirator to be used to collect small insects for observation  |
| <b>Build Your Own Plant Cell</b>       | <b>Science</b> 4.4, 5.5, LS.1, LS.2, LS.3   | Create their own model of a plant cell<br><br>Discuss the structures and functions of the plant cell organelles   |
| <b>Counting Seeds with Farmer Jack</b> | <b>Science</b> K.7, 1.4, 1.7<br><br><b>English</b> K.1, K.2, K.5, K.6, K.8, 1.1, 1.2, 1.5, 1.8<br><br><b>Math</b> K.1, K.2, K.5, K.6, 1.1, 1.2  | Develop listening comprehension skills, identify seasonal changes in plants, follow directions, count seeds, add and subtract basic facts   |



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| <b>Dig Into Potatoes</b>      | <p><b>Science</b> K.1, K.2, K.4, K.6, K.7, 1.1, 1.4, 1.6, 1.7, 1.8, 2.1, 2.4, 2.7, 2.8</p> <p><b>English</b> K.1, K.2, K.3, K.4, 1.1, 1.2, 1.3, 1.4, 1.8, 2.1, 2.3, 2.7, 2.8</p> <p><b>Social Studies</b> K.3, K.6, K.7, 1.6, 2.7</p> | <p>Read and analyze the poem "Potatoes"</p> <p>Identify the needs of plants</p> <p>Identify soil characteristics, emphasizing Virginia crops</p> <p>Illustrate elements of the poem</p>  |
| <b>Dirt Baby</b>              | <p><b>Science</b> K.1, K.2, K.7, K.9, 1.1, 1.4, 2.1, 2.4, 2.8, 3.1, 3.7, 3.8, 4.1, 4.4</p> <p><b>Math</b> K.13, K.14, 1.5, 1.14, 1.15, 1.17, 2.5, 2.11, 2.17, 2.18, 2.19, 2.20, 3.9, 3.17, 3.19, 4.4, 4.7, 4.14</p>                   | <p>Investigate the needs of plants as they make their own "do-it-yourself Chia pet!"</p> <p>Investigate germination, the life cycle of plants and change over time</p> <p>Investigate plant parts and life needs</p> <p>Identify plants as natural resources</p> |
| <b>Garden Critter Diaries</b> | <p><b>Science</b> 1.1, 1.5, 2.1, 2.5, 3.1, 3.4, 3.5, 4.1, 4.5, 4.9</p> <p><b>English</b> 1.2, 1.13, 1.14, 2.2, 2.12, 2.14, 3.4, 3.5, 3.6, 3.9, 3.12, 4.4, 4.5, 4.7, 4.9, 5.5, 5.6, 5.7, 5.9</p>                                       | <p>Read and discuss <i>Diary of a Worm</i> by Doreen Cronin</p> <p>To research, using the internet, a variety of animals that may find habitats within their school gardens</p> <p>Create your own "critter diaries."</p>  |
| <b>The Gift of Trees</b>      | <p><b>Science</b> 1.7, 1.8, 2.4, 2.7, 3.6, 3.8</p> <p><b>Language Arts</b> 1.9, 2.8, 3.5</p>  | <p>Identify common Virginia evergreen trees (conifers)</p>   |
| <b>I Have ... Who Has?</b>    | <p><b>Science</b> 1.1, 1.8, 2.1, 3.1, 4.1, 4.9</p> <p><b>English</b> 1.1, 1.2, 2.2, 2.3, 3.1, 3.4, 4.1, 5.1</p>   | <p>Identify important Virginia resources</p> <p>Expand oral communication skills and descriptive vocabulary</p>  |



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| <b>Nutrition Fun</b>       | <p><b>Science</b> 3.1, 3.9, 4.1, 5.1</p> <p><b>Health</b> 4.1</p>   | Become aware of the vitamins and minerals contained in food and the need for good health   |
| <b>Parts of a Plant</b>    | <p><b>Science</b> 2.4, 2.8, 4.4</p> <p><b>English</b> 2.1, 2.2, 2.3, 2.8, 2.11, 2.12, 2.13, 3.1, 3.4, 3.6, 3.9, 3.10</p>                        | <p>Observe, investigate, sort, and compare/contrast seeds</p> <p>Study plant parts and functions</p> <p>Record data</p> <p>Write a descriptive paragraph</p> <p>Discuss basic needs of seeds to grow</p>   |
| <b>Savvy Sorting</b>       | <p><b>Science</b> K.1, K.2, K.4, K.7, K.9, 1.1, 1.4, 2.1, 2.4, 2.8, 3.1, 3.8, 4.1, 4.4</p> <p><b>Math</b> K.1, K.14, K.15, 1.14, 1.15, 1.16</p> | <p>Use a variety of fruits, vegetables, gourds, seeds or other plant material to practice describing and sorting items by identifying and using various characteristic properties</p> <p>Use these vegetable manipulatives to work with physical Venn diagrams</p> |
| <b>Seed Probability</b>    | <p><b>Mathematics</b> 2.18, 3.18, 4.13, 5.14, 5.16</p>  | Use a variety of seeds to conduct a probability experiment   |
| <b>Seed Snoops</b>         | <p><b>Science</b> K.1, K.4, K.7, 1.1, 1.4, 2.1, 2.4, 3.1, 3.3, 4.1, 4.4</p>   | Compare and contrast seeds that have been soaked in water to those that are dry  |
| <b>Sink or Float</b>       | <p><b>Science</b> K.1, K.4, K.7, 1.1, 1.4, 2.1, 3.1, 4.1</p> <p><b>Math</b> 2.17, 2.18, 2.19, 2.20, 3.17, 3.19, 4.14, 4.15</p>                  | <p>Define fruit</p> <p>Identify many common fruits</p> <p>Make predictions whether common fruits sink or float based on size and density</p> <p>Draw a bar graph and develop a conclusion regarding common fruits and their ability to sink or float</p>           |
| <b>Soil Learning Cycle</b> | <p><b>Science</b> 3.1, 3.7</p>  | List five observations that they made about their soil sample, describe the components of soil, explain why soil is a natural resource and why it should be conserved  |



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| <b>Visualizing Veins</b>          | <b>Science</b> 4.1, 4.4, 5.1, 5.5   | Identify the differences between the vascular and nonvascular structure in plants through observing the systems in action |
| <b>Water Cycle in a Cup</b>       | <b>Science</b> 2.1, 2.3, 2.6, 2.7, 3.1, 3.9, 3.10, 3.11, 4.1, 4.6, 4.9  | Create a mini-model of the water cycle<br><br>Discuss the importance of water to agriculture and natural resources        |
| <b>Why Virginians Need Plants</b> | <b>Science</b> 1.4, 2.8<br><br><b>Social Studies</b> 1.6  | Understand that plants provide people with food, clothing, shelter, and many other necessities                            |
| <b>A Year in the Garden</b>       | <b>Science</b> K.7, K.9, 1.4, 1.5, 1.6, 1.7, 2.4, 2.5, 2.6, 2.7, 2.8<br><br><b>English</b> K.1, K.2, K.3, K.5, K.6, K.8, K.10, K.11, K.12, 1.1, 1.2, 1.5, 1.7, 1.10, 1.12, 1.13, 2.1, 2.2, 2.6, 2.7, 2.9<br><br><b>Math</b> K.5, K.10, 1.3, 1.11, 2.3, 2.20 | Listen to and discuss the book, <i>This Year's Garden</i><br><br>Review and illustrate the seasons in a garden.           |

