



# Who's Got an Orange Thumb? Sweetpotato Lesson - MS Growing a Sweetpotato - Day 2



<b>Grade Level(s):</b> 6 <sup>th</sup> – 8 <sup>th</sup> grade	<b>Lesson Description:</b> Students learn how to explore the biology of sweetpotatoes	<b>Timeframe:</b> Minutes: 45 min Suggested days: 2 days with weekly follow ups on growth
<b>Goals &amp; Objectives</b> This middle school lesson will incorporate botany, horticulture, and basic biology into the Family and Consumer Sciences classroom, and facilitate a planting/growing project. Students will be able to: *explain how a sweetpotato grows *grow a sweetpotato slip		<b>Prepared By:</b> Barnanne Creech Family & Consumer Sciences Teacher Zebulon GT Magnet Middle School Wake County Public Schools
<b>North Carolina Family &amp; Consumer Sciences Education Standards:</b>		
<b>Module 3-Nutrition and Wellness</b> ES 3.00 Understand factors that influence nutrition and wellness. 3.01 Understand the impact of choices on wellness. 3.02 Understand kitchen basics. 3.03 Understand nutritious meal planning and preparation.		
<b>Family &amp; Consumer Sciences National Standards</b> <a href="http://www.nasafacs.org/national-standards-and-competencies.html">http://www.nasafacs.org/national-standards-and-competencies.html</a> 14.4 Evaluate factors that affect food safety from production through consumption. 14.5 Evaluate the influence of science and technology on food, nutrition, and wellness.		
<b>Materials Needed</b>	*laptop *LCD *student handouts *paper *markers *Document camera *materials to grow a sweetpotato on day 2 – cup, water, sweetpotato, toothpicks * Sweetpotato observation form – <a href="#">Appendix C</a> (to be used after a week of growth)	

<b>Anticipatory Set</b> 5 Minutes	Teacher shows website <a href="https://ncsweetpotatoes.com/sweet-potatoes-101/how-to-grow-sweet-potatoes/">https://ncsweetpotatoes.com/sweet-potatoes-101/how-to-grow-sweet-potatoes/</a> List the 4 steps in growing sweetpotatoes <ol style="list-style-type: none"> <li>1. Select a sweetpotato variety</li> <li>2. Grow Your Sweetpotato Sprouts</li> <li>3. Transplant Your Sprouts</li> <li>4. Harvest Your Sweetpotatoes</li> </ol>	*Computer *LCD
<b>Activity 1</b> 10 Minutes	<b>Paper Slide Creation</b> Students get into groups of 2 from the last class period Students get out their summarizing handout They are to each create 1 paper slide summarizing the key points from the area they read about during the last class period.  Have students make a title paper slide, so they have 3 slides total to present	*Laptops * <a href="#">Summarizing handout – Appendix B</a> *paper *markers
<b>Activity 2</b> 10 minutes	<b>Paper Slide Show</b> Students present their 3 paper slides using the document camera  Note: If classroom has no document camera, slides can be posted on the classroom walls and student go a gallery walk.	*paper slides *document camera
<b>Activity 3</b> 15 Minutes	<b>Let's Grow Sweetpotatoe's</b> Following these steps, students create their sweetpotato growing jar <a href="https://gardenatschool.wordpress.com/2012/05/20/root-activity-grow-a-sweet-potato/">https://gardenatschool.wordpress.com/2012/05/20/root-activity-grow-a-sweet-potato/</a>	*glass jars *sweetpotatoes *toothpicks *warm water
<b>Summary/Evaluation</b> 2 min	Students place jars in sunlight area to check in a week. Student teams of 2 record their findings on the Sweetpotato observation form – Appendix C There are 3 entries on the observation form so have students observation 1 time each week over 3 weeks.	* <a href="#">Sweetpotato observation form – Appendix C</a>
<b>Source/Other Resources</b>	Garden at school, Posted by. "Root Activity–Grow a Sweetpotato." <i>Garden at School</i> , 26 May 2016, <a href="https://gardenatschool.wordpress.com/2012/05/20/root-activity-grow-a-sweet-potato/">https://gardenatschool.wordpress.com/2012/05/20/root-activity-grow-a-sweet-potato/</a>  "Industry." <i>North Carolina Sweetpotatoes</i> , ncsweetpotatoes.com/sweet-potato-industry/  SouthCarolinaETV. "Making It Grow - Sweetpotato Research." <i>YouTube</i> , YouTube, 22 Feb. 2017, <a href="http://www.youtube.com/watch?v=gE1EO-ONko4">www.youtube.com/watch?v=gE1EO-ONko4</a> .	