



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



Grade Level(s): 6 th – 8 th grade	Lesson Description: Students learn how to explore the biology of sweet potatoes	Timeframe: Minutes: 45 min Suggested days: 2 days with weekly follow ups on growth
Goals & Objectives 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		Prepared By: Barnanne Creech Family & Consumer Sciences Teacher Zebulon GT Magnet Middle School Wake County Public Schools
North Carolina Family & Consumer Sciences Education Standards:		
Module 3-Nutrition and Wellness 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.		

Family & Consumer Sciences National Standards

<http://www.nasafacs.org/national-standards-and-competencies.html>

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.

Materials Needed

- *laptop
- *LCD
- *student handouts
- *paper
- *markers
- *Document camera
- *materials to grow a Sweetpotato on day 2 – cup, water, Sweetpotato, toothpicks
- * Sweetpotato observation form – Appendix C (to be used after a week of growth)

<p>Anticipatory Set 5 Minutes</p>	<p>Teacher shows website https://ncsweetpotatoes.com/sweet-potatoes-101/how-to-grow-sweet-potatoes/</p> <p>List the 4 steps in growing Sweetpotatoes</p> <ol style="list-style-type: none"> 1. Select a Sweetpotato variety 2. Grow Your Sweetpotato Sprouts 3. Transplant Your Sprouts 4. Harvest Your Sweetpotatoes 	<p>*Computer *LCD</p>
<p>Activity 1 10 Minutes</p>	<p>Paper Slide Creation Students get into groups of 2 from the last class period Students get out their summarizing handout They are to each create 1 paper slides summarizing the key points from the area they read about during the last class period.</p> <p>Have students make a title paper slide, so they have 3 slides total to present</p>	<p>*Laptops *Summarizing handout – Appendix B *paper *markers</p>
<p>Activity 2 10 minutes</p>	<p>Paper Slide Show Students present their 3 paper slides using the document camera</p> <p>Note: If classroom has no document camera, slides can be posted on the classroom walls and student go a gallery walk.</p>	<p>*paper slides *document camera</p>
<p>Activity 3 15 Minutes</p>	<p>Let's Grow Sweetpotato's Following these steps, students create their Sweetpotato growing jar https://gardenatschool.wordpress.com/2012/05/20/root-activity-grow-a-sweet-potato/</p>	<p>*glass jars *Sweetpotatoes *toothpicks *warm water</p>

<p>Summary/Evaluation 2 min</p>	<p>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.</p>	<p>* Sweetpotato observation form – Appendix C</p>
<p>Source/Other Resources</p>	<p>gardenatschool, Posted by. "Root Activity–Grow a Sweetpotato." <i>Garden at School</i>, 26 May 2016, gardenatschool.wordpress.com/2012/05/20/root-activity-grow-a-sweet-potato/.</p> <p>"Industry." <i>North Carolina Sweetpotatoes</i>, ncsweetpotatoes.com/sweet-potato-industry/</p> <p>SouthCarolinaETV. "Making It Grow - Sweetpotato Research." <i>YouTube</i>, YouTube, 22 Feb. 2017, www.youtube.com/watch?v=gE1EO-ONko4.</p>	