**Who’s Got an Orange Thumb?**

**Sweetpotato Lesson - MS**

**Growing a Sweetpotato - Day 2**

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| Grade Level(s):  6th – 8th 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 & ObjectivesThis 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 CreechFamily & Consumer Sciences TeacherZebulon GT Magnet Middle SchoolWake 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>

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| 14.4 | Evaluate factors that affect food safety from production through consumption. |
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| 14.5 | Evaluate the influence of science and technology on food, nutrition, and wellness. |
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| 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) |

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| Anticipatory Set5 Minutes | Teacher shows website <https://ncsweetpotatoes.com/sweet-potatoes-101/how-to-grow-sweet-potatoes/>**List the 4 steps in growing Sweetpotatoes**1. **Select a Sweetpotato variety**
2. **Grow Your Sweetpotato Sprouts**
3. **Transplant Your Sprouts**
4. **Harvest Your Sweetpotatoes**
 | \*Computer\*LCD |
| Activity 110 Minutes | **Paper Slide Creation**Students get into groups of 2 from the last class periodStudents 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.Have students make a title paper slide, so they have 3 slides total to present | \*Laptops\*Summarizing handout – Appendix B\*paper \*markers |
| Activity 210 minutes | **Paper Slide Show**Students present their 3 paper slides using the document cameraNote: If classroom has no document camera, slides can be posted on the classroom walls and student go a gallery walk.  | \*paper slides\*document camera |
|  Activity 315 Minutes | **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/> | \*glass jars\*Sweetpotatoes\*toothpicks\*warm water |
| Summary/Evaluation2 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.  | \* Sweetpotato observation form – Appendix C |
| Source/Other Resources |  gardenatschool, Posted by. “Root Activity–Grow a Sweetpotato.” *Garden at School*, 26 May 2016, gardenatschool.wordpress.com/2012/05/20/root-activity-grow-a-sweet-potato/. “Industry.” *North Carolina Sweetpotatoes*, ncsweetpotatoes.com/sweet-potato-industry/ SouthCarolinaETV. “Making It Grow - Sweetpotato Research.” *YouTube*, YouTube, 22 Feb. 2017, [www.youtube.com/watch?v=gE1EO-ONko4](http://www.youtube.com/watch?v=gE1EO-ONko4).  |