**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 & 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) | | | |

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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 1 10 Minutes | **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.  Have students make a title paper slide, so they have 3 slides total to present | \*Laptops  \*Summarizing handout – Appendix B  \*paper  \*markers |
| Activity 2 10 minutes | **Paper Slide Show**  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 |
| 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/Evaluation 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. | \* 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). | |