**Who’s Got an Orange Thumb?**

**Sweetpotato Lesson - MS**

**Growing a Sweetpotato - Day 1**

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| Grade Level(s): 6th – 8th grade | | Lesson Description: Students learn how to explore the biology of sweetpotatoes | | 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 general 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 | | | |

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| Anticipatory Set15 Minutes | Teacher holds up a sweetpotato and asks “does anyone know how to grow a  Sweetpotato?”  Pass out 3, 2, 1 handout  Show student video “Making It Grow - Sweetpotato Research”  <https://www.youtube.com/watch?v=gE1EO-ONko4>  Students record using the 3,2,1 handout  Debrief after the video, as to what they wrote on their handouts | \*Computer  \*LCD  \*Sweetpotato  \*3, 2, 1 handout Appendix A |
| Activity 1 20 Minutes | Students get into groups of 2  Students get laptops – 1 laptop per team  Students are to read “From Farm to School Crops of NC – Digging for Sweetpotatoes” PDF Link in the folder  Student read to each other and  they individually complete the Summarizing Handout – Appendix B | \*Lap tops  \*Summarizing handout – Appendix B |
| Activity 2 5 minutes | Talk with partner about what the 3 supporting details an overall summary from reading the book. Students review what they wrote on the summarizing handout. |  |
| Activity 33 Minutes | Prep for students to next class lesson as they will create 3 Summary paper slides about what they read in the book. |  |
| Summary/Evaluation 2 min | Exit ticket time! Using complete sentences, each student write down 1 thing they learned today from the lesson. Share their exit tickets with one another. |  |
| Source/Other Resources | “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). | |