

**Course:** Ag Ed II

**Unit:** Soils, Hydroponics, Wreaths

**Purpose:** For students to work efficiently and learn and understand soils, hydroponics units, and how to make wreaths

**Objectives:**

- Students will hand craft a wreath
- Students will understand how to test Soil Samples
- Students will research and create a hydroponics unit
- Students will analyze soil on Web Soil Survey

**Materials Needed:**

- Wreath – Greenery, Metal Wreath frame, Clippers, bows, decorations,
- Web Soil Survey- Computer, Flashdrive
- Hydroponics- Computer, flashdrive and materials related to unit students create.
- Soil Testing- Soil testing kit and soil from students home.

TEACHER NOTES & COMMENTS:

This was every teachers most difficult class in the building. Teachers who have never had classroom management problems in 7-15 years of teaching had problems with this class and the large group of boys who take every class together.

After trying to maintain classroom management and days of frustrations from students not following directions. I decided to break students into four groups chosen by themselves. Students have six weeks to complete these four projects. If the projects are not completed in the allotted time, students will receive a zero.

This break down of students went very very well students worked efficiently, listened and it became much more manageable to control class.

## Teaching Instructions

- **Students should be broken into 4 groups and have 6 weeks to complete each project using class time provided.**
- Wreath – demonstrate to students how to weave the wooden twig of the green into the wreath frame. Then tell students to continue weaving in the same direction until wreath looks full and even all the way around students can then decorate with bows, pinecones, bells ect to what they think looks good.
- Hydroponics students will begin by observing and analyzing the hydroponics units in the classroom. Students should then research aero and hydroponics units and decide which one they

would like to make. Students need to develop a list of what materials they need and have a working hydroponics unit by the end of the semester.

- Soil Testing- Students will be taught how to take a proper soil sample students should bring their sample to class. Students will then read the directions on the soil sample kit and take samples to determine the type of soil their piece of land has. Students will also look and analyze soil samples in jars and be able to feel the different soil textures.
- Web Soil Survey – Students will find their farm or a piece of land and analyze it using web soil survey. Students will find what qualities are adaptable to their farm as well as be able to understand the soil textures and types of soil.