



## Course Outcome Summary

### Course Information: **Plants and People**

**Description:** This class introduces students to the importance of plants to people. We will look at why Agriculture is important to the middle school student, how soil is made and used by people and how plants grow and are used by people.

**Instruction Level:** Seventh Grade

**Total Credits:** .25 credits

### Course Standards:

#### Common Career and Technical Core:

1. Communicate and collaborate with others to accomplish tasks and develop solutions to problems and opportunities.
2. Identify and apply employability skills.
3. Assess benefits and challenges of working in diverse settings and on diverse teams.
4. Apply leadership skills in real-world, family, community and business and industry applications.

#### ACT Reading and Writing Standards:

1. Show a basic understanding of the persuasive purpose of the task by taking a position on the issue in the prompt.
2. Maintain a focus on the general topic in the prompt throughout the essay
3. Provide a simple organizational structure by logically grouping some ideas
4. Locate and interpret minor or subtly stated details in somewhat challenging passages
5. Draw subtle logical conclusions in somewhat challenging passages
6. Paraphrase some statements as they are used in more challenging passages
7. Understand point of view in somewhat challenging passages

**Prerequisites:** None

**Textbooks:** None

### Unit

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1. **What Does Agriculture Provide My Life With?**
2. **Soils**
3. **Plants**

### Unit Outlines

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1. **What Does Agriculture Provide My Life With?**

### **State AFNR Standards:**

- Recognize products and the animals the products are derived from.
- Identify where food is produced and why it is processed.
- Identify and explain environmental and safety concerns about food supply.
- Outline procedures to eliminate possible contamination hazards associated with food products and processing.

### **Essential Questions:**

- How does Agriculture enhance the quality my life?

### **Essential Knowledge:**

- Students will be able to identify common items in their everyday life that originate from Agriculture.
- Students will be able to explain why it is important to have a constant abundant supply of agricultural products.

## **2. Soils**

### **State AFNR Standards:**

- Determine the nutrient content of soil using appropriate laboratory procedures and prescribe fertilization based on results.
- Apply soil science and microbiology principle to environmental service systems.

### **Essential Questions:**

- Why is soil important to my life?

### **Essential Knowledge:**

- Students will be able to explain how soil is made.
- Students will be able to identify the horizons of soil.
- Students will be able to describe why it is important to conserve soil.

## **3. Plants**

### **State AFNR Standards:**

- Determine the influence of environmental factors on plant growth.
- Prepare growing medium for use in plant systems.
- Investigate various means to grow plants.
- Use harvesting selection and inspection techniques to obtain quality food products for processing.
- Apply knowledge of plant anatomy and the functions of plant structures to activities associated with plant systems.
- Apply knowledge of plant physiology to plant systems.
- Develop and implement a fertilization plan for specific plants, field crops, and or greenhouse crops.

- Demonstrate plant propagation techniques.

**Essential Questions:**

- Why are plants important to my life?

**Essential Knowledge:**

- Students will be able to identify the parts of a plant.
- Students will be able to state common uses for plants and crops; as well as non-traditional uses.
- Students will learn what plants need to grow.

