

## Gee Whiz in Agriculture Content Standards

### “What’s bugging You?”

**\*Project Area Skill (PAS) refers to the subject matter based skill which youth demonstrate in relation to the correlating content standard.\***

**Objectives:**

#### Career Readiness-

1. **Students will identify their career interests and aptitudes to develop an educational plan which supports career goals.**

**Benchmarks: K-4: 1 A, B, C; 5-8: 1 A, B, C, D**

**Project Area Skill: The youth understand the importance of learning about entomology. The unit covers topics including identifying insects, uses of beneficial insects, and insects which are common pests. With this knowledge, the youth are able to become interested in a career in the entomology field.**

2. **Students will utilize and manage resources effectively to produce quality services and products.**

**Benchmarks: K-4: 2 A, B, C; 5-8: 2 A, B**

**Project Area Skill: The youth learn how proper time management can affect the outcome of completing assignments. Youth understand how using equipment properly and efficiently can affect a bug collection.**

3. **Students will demonstrate the technological knowledge and skills required for future careers.**

**Benchmarks: K-4: 3 A, B, C, D; 5-8: 3 A, B, C, D**

**Project Area Skill: The youth use computers to complete assignments within the topic. Youth can use different programs to research different insects and their habitats.**

4. **Students will develop and demonstrate responsible and ethical workplace behaviors.**

**Benchmarks: K-4: 4 A, B, C, D, E; 5-8: 4 A, B, C, D**

**Project Area Skill: The youth understand the importance of working cooperatively with others to achieve set goals.**

- 5. Students will develop effective leadership, interpersonal, and team skills.**

**Benchmarks: K-4: 5 A, B, C, D; 5-8: 5 A, B, C, D**

**Project Area Skill: The youth develop leadership skills as they work in groups with others or by helping others learn the material. They learn important social skills as they mingle with others in an educational setting.**

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#### Language Arts-

- 1. Reading and listening for comprehension: Students will apply strategies and skills to comprehend information that is read, heard, and viewed.**

**Benchmarks: K-4: 1 A, B, C, D; 5-8: 1 A, B, C, D**

**Project Area Skill: The youth learn about entomology by reading text in the student worksheets. Youth learn about insects by listening to others and reading entries made by peers.**

- 2. Writing and speaking for expression: Students will communicate effectively through speaking and writing.**

**Benchmarks: K-4: 2 A, B, C; 5-8: 2 A, B, C**

**Project Area Skill: The youth learn how to describe information they have learned to others. Youth complete assignments related to entomology using various writing techniques and styles. The completion of essays, stories, or short answers can be used to fulfill the requirements of this standard.**

- 3. Literature and media: Students will use literature and media to develop and understanding of people, societies, and the self.**

**Benchmarks: K-4: 3 A; 5-8: 3 A**

**Project Area Skill: The youth are able to view a video which accompanies the learning materials. This video creates a more in-depth view of insects and the field which studies them.**

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#### Math-

- 1. Number and operations: Students will understand numerical concepts and mathematical operations.**

**Benchmarks: K-4: 4 A, B, C; 5-8: 4 A, B, C**

**Project Area Skill: The youth use addition, subtraction, multiplication, and division to calculate population rates of insects in a specific area. Youth perform simple mathematical operations to answer word problems involved with quantities of body parts.**

- 2. Measurement: Students will understand measurement systems and applications.**

**Benchmarks: K-4: 1 A, B, C, D; 5-8: 1 A, B, C, D**

**Project Area Skill: The youth use units of measurement, such as inches and centimeters, to calculate body sizes of individual insects. Youth may use acres or miles to figure the area of natural habitats for the insects.**

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##### **Science: Strand: Scientific Thinking and Practice: Standard I-**

- 1. Understand the processes of scientific investigations and use inquiry and scientific ways of observing, experimenting, predicting, and validating to think critically.**

- A. K-4: Benchmark I: Use scientific methods to observe, collect, record, analyze, predict, interpret, and determine reasonableness of data.  
5-8: Benchmark I: Use scientific methods to develop questions, design and conduct experiments using appropriate technologies, analyze and evaluate results, make predictions, and communicate findings.**

**Project Area Skill: The youth learn the scientific method by identifying each step and applying them towards solving a problem. Moreover, the youth apply these steps in many problems associated with entomology, especially those concerning classification of insects.**

##### **Science: Strand: Content of Science: Standard II: Life Science-**

- 1. Understand the properties, structures, and processes, of living things and the interdependence of living things and their environments.**

- A. K-4: Benchmark I: Know that living things have diverse forms, structures, functions, and habitats.  
5-8: Benchmark I: Explain the diverse structures and functions of living things and the complex relationships between living things and their environments.**

**Project Area Skill: The youth understand that insects live in different habitats depending on food supply and other organisms in the environment. Youth recognize how the insects adapt to their habitats using different skills. Furthermore, the youth understand the roles of beneficial and non-beneficial insects.**

- A. **K-4: Benchmark II: Know that living things have similarities and differences and that living things change over time.**  
**5-8: Benchmark II: Understand how traits are passed from one generation to the next and how species evolve.**

**Project Area Skill: The youth are able to recognize similarities and differences among insects in a family, group, genus, or species. Youth understand how changes in the environment affect the way species evolve to better fit their habitats.**