

Gee Whiz in Agriculture Content Standards

“Chickens and Piglets and Lambs, Oh My!”

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 personal career goals.**

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

Project Area Skill: The youth are able to learn about the reproductive cycle of different species of livestock. Youth learn terms associated with pre- and post-natal life in animals. The youth are able to use this information to pursue a career in animal science or veterinary science.

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 manage time effectively to complete assigned activities from the student worksheet. Youth understand the value of being resourceful in utilizing available information related to the assignments.

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 and other technology to complete assignments related to this topic. They may use the Internet to research related topics. Youth learn about different tools which are used in animal reproduction.

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 learn the importance of working with others to achieve common goals. Youth understand that responsible behaviors which are learned at school and home can make decision-making easier in the workplace.

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 understand the importance of developing leadership skills when interacting with others. The youth assume roles in the group, and are able to socially interact with other young people.

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Objectives:

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 the reproduction of animals through reading the student materials and completing assigned activities. Other youth are encouraged to communicate openly about knowledge which is learned to enable others to learn by listening.

- 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 the importance of describing information which they have learned. They complete assignments related to animal reproduction using different writing styles. The youth are then expected to orally explain their ideas and writing creations.

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

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

Project Area Skill: The youth are able to watch an introductory video of pregnant animals and the birthing process. This video allows youth to learn about the gestation period in animals, and to gain knowledge of the topic before completing assignments.

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Math-

- 1. Number and operations: Students will understand numeric 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 problems in the assignments. They calculate length of gestation, numbers of offspring in a given time, and total weight of baby animals born per mother per year.

- 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 to calculate birth weight of animals. By understanding why it is important to record weight, the youth may better understand why producers use this information to breed animals differently.

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Science: Strand I: 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 II: Use scientific thinking and knowledge and communicate findings.
5-8: Benchmark II: Understand the processes of scientific investigation and how scientific inquiry results in scientific knowledge.

Project Area Skill: The youth learn about the steps of the reproductive cycle and how each step is important to survival. Youth learn how to observe the parent animals, and make assumptions about how the offspring will look and perform.

Science: Strand II: 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 how livestock coexist with others in their environment. The youth recognize that each breed of livestock is used for different purposes.

- B. 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 understand that reproduction is very important for evolving species, improving animal performance, and to increase supplies of meat. By observing the reproductive cycles, the youth can see how traits are passed from one animal to another.