

Gee Whiz in Agriculture Content Standards

“From Moo to 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 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 set goals and begin to make plans which require preparation for entering the dairy industry. Also, the youth recognize different careers related to the dairy industry and how to accommodate their plans based on personal interest.

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 understand the importance of managing equipment or capital and of utilizing available resources such as feed, water, shelter, and labor to efficiently produce high quality milk and milk products.

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

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

Project Area Skill: The youth use computers and other forms of modern technology to perform tasks. Through the use of this technology, they prepare themselves for potential careers in the dairy industry.

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 using appropriate time management skills in order to complete sections of written work which accompany this theme.

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 demonstrate tactics learned through the interactions with others as they progress through learning materials. The youth are urged to work cooperatively with others, developing leadership traits and team skills. Youth interact with others in a cooperative learning environment.

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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 utilize the student worksheets to complete various assignments through the course of the unit. Activities are designed to access cross-curriculum critical thinking skills. Instructors may also be asked to lecture on the material.

- 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 are able to express ideas freely because open communication is encouraged when working in groups with other students. Youth understand the importance of knowing the material to utilize it for later use.

- 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 shown VHS versions of content related to the specific industry. This allows them to learn the material in a fun, quick way. The video is aptly extensive to show the business side of the industry. Youth can see how the industry is changing and modernizing.

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Math-

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

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

Project Area Skill: The youth are able to use basic mathematical skills to figure out equations. For example, youth complete an activity which involves computing how much milk is produced by a cow per day and per year.

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

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

Project Area Skill: The youth recognize the importance that units of measurement have on the dairy industry. Milk is measured by its volume using gallons as the measurement tool. The youth learn conversion skills to compute gallons produced in relation to amount of feed and water inputs, as well as gross and net incomes based on price per gallon.

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Health-

- 1. Students will demonstrate the ability to practice health-enhancing behaviors and reduce health risks.**

Benchmarks: K-4: 3 A, D, E; 5-8: 3 A, D, E

Project Area Skill: The youth understand the importance of milk and milk products. The dairy industry is very informative about the health benefits of milk. Youth who are engaged in learning about milk, are able to recognize these benefits in a learning-enriched setting, thus encouraging them to consume milk more regularly.

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Objectives:

Social Studies: Strand: Geography: Content Standard II-

- 1. Students understand how physical, natural, and cultural processes influence where people live, the ways in which people live, and how societies interact with one another and their environments.**

F. K-4: Benchmark II: Describe how natural and man-made changes affect the meaning, use, distribution, and value of resources.

5-8: Benchmark II: Understand the effects of interactions between human and natural systems in terms of changes in meaning, use, distribution, and relative importance of resources.

Project Area Skill: The youth understand how the evolution of the dairy industry has had effects upon the population, the land, and the available resources. Youth are able to recognize how the utilization of available resources results in a marketable end product.

Social Studies: Strand: Economics: Content Standard IV-

- 1. Students understand basic economic principles and use economic reasoning skills to analyze the impact of economic systems (including the market economy) on individuals, families, businesses, communities, and governments.**

A. K-4: Benchmark IV: Understand that individuals, households, businesses, governments, and societies make decisions that affect the distribution of resources and that these decisions are influenced by incentives (both economic and intrinsic).

5-8: Benchmark IV: Explain and describe how individuals, households, businesses, governments, and societies make decisions, are influenced by incentives (economic as well as intrinsic) and the availability and use of scarce resources, and that their choices involve costs and varying ways of allocating.

Project Area Skill: The youth understand the impact that the dairy industry has upon all organizations and cultures in proximity to its location. Dairies are enticed to move into newer areas with promises of funding, public support, and availability of crucial resources. The youth may also be able to recognize how locally owned dairies support the communities in which they transact business.

B. K-4: Benchmark IV: Understand that economic systems impact the way individuals, households, businesses, governments, and societies make decisions about goods and services.

5-8: Benchmark IV: Explain how economic systems impact the way individuals, households, businesses, governments and societies make decisions about resources and the production and distribution of goods and services.

Project Area Skill: The youth are able to further understand the importance of supporting local industries such as dairies. The business transactions which take place benefit many community members and business owners.

C. K-4: Benchmark IV: Understand the patterns and results of trade and exchange among individuals, households, businesses, governments, and societies, and their interdependent qualities.

5-8: Benchmark IV: Describe the patterns of trade and exchange in early societies and civilizations and explore the extent of their continuation in today's world.

Project Area Skill: The youth are able to more readily understand how prices of milk and milk products affect the dairy industry. They recognize how to follow trade patterns by observing daily market values of milk, and learning the basics behind futures trading on the stock market.

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Science: Strand: Scientific Thinking and Practice: Content Standard I:

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

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 become engaged in an activity in which they taste different cheeses and dairy products, then use higher order thinking skills to classify and organize the products. This activity gives the youth the opportunity to actually taste the different products and learn the history and uses of them.

Science: Strand: Content of Science: Content Standard I: Life Science:

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

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 different breeds of dairy cattle are best for different purposes. Youth recognize the environment of the dairy and how it affects milk production.

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 recognize differences in the dairy cattle as they grow into maturity. Youth know why it is important for the dairy producer to select high milk production traits when purchasing dairy heifers.

Science: Strand: Science and Society: Content Standard I:

1. Understand how scientific discoveries, inventions, practices, and knowledge influence, and are influenced by individuals and societies.

K-4: Benchmark I: Describe how science influences decisions made by individuals and societies.

5-8: Benchmark I: Explain how scientific discoveries and inventions have changed individuals and societies.

Project Area Skill: The youth recognize important scientific discoveries in the dairy industry and how they have affected production and safety. Many inventions are used today and pasteurization of milk is an important aspect of ensuring the consumer's safety.