

Agricultural Science I

Curriculum Guide: *Introduction to Dairy Production*

Unit Objective:

Students will demonstrate an understanding of the principles of dairy production by designing a dairy operation and explaining the parts of the operation on a poster that will be displayed in class.

Show-Me Standards: 2.1, CA6

References:

Hoard's Dairyman. Accessed April 3, 2003, from <http://www.hoards.com/>.

Introduction to Dairy Production. University of Missouri-Columbia, Instructional Materials Laboratory, 1997.

NASCO On-Line Catalogs. Accessed April 3, 2003, from <http://www.enasco.com/prod/Home>.

Steevens, B., Ricketts, R. E., Rook, J., & Ruchlow, R. *Before You Go Into Dairying*. University of Missouri-Columbia Extension. Accessed March 3, 2003, from <http://muextension.missouri.edu/explore/agguides/dairy/g03500.htm>.

Students may use additional outside sources to complete this activity.

Instructional Strategies/Activities:

- Students will engage in study questions in lessons 1 through 6.
- Students will complete AS 4.1, Costs and Returns.
- Additional activities that relate to the unit objective can be found under the heading "Other Activities" in the following locations: p. 4 and p. 48.

Performance-Based Assessment:

Students will design an aerial view map of a complete dairy operation and present their map on a poster. They will label the facilities and include brief captions to explain why they chose the facilities and made the design decisions they did. Completed posters will be displayed in class.

Assessment will be based on the overall content and presentation of the dairy operation poster.

Introduction to Dairy Production Instructor Guide

The instructor should assign the performance-based assessment activity at the beginning of the unit. Students will work toward completing the activity as they progress through the unit lessons. The assessment activity will be due at the completion of the unit.

1. Have students design an aerial view map of a complete dairy operation and present their map on a poster.
2. Have students label the facilities and include brief captions to explain why they chose the facilities and made the design decisions they did.
3. Explain the acceptable form or forms for students' maps. For example, students could design their map by drawing, using collage, or other means.
4. If desired, lead the class in a discussion that will help them design their dairy operation. The map should reflect these design decisions, and the captions give the student the opportunity to explain his or her reasons for making them.
 - a. Discussion questions might include the following.
 - o What facilities will you need?
 - o What type of milking parlor would you choose and why?
 - o How will you store feed and waste?
 - b. Additional information can be found at the University of Missouri Extension web site, such as *Before You Go Into Dairying*, accessed March 3, 2003, from <http://muextension.missouri.edu/explore/agguides/dairy/g03500.htm>.
5. Students may use additional outside material to complete their poster. Students may not use the source material word for word and must provide a complete bibliography of their sources along with their completed poster.
6. Display completed posters in class.
7. The final assessment score will be based on the overall content and presentation of the dairy operation poster.

Introduction to Dairy Production Student Handout

1. Create an aerial view map of a complete dairy operation and present your map on a poster.
2. Label all facilities and include brief captions to explain why you chose the facilities and made the design decisions you did.
3. You may use additional outside material to complete your poster.
4. You may not use the source material word for word and must provide the instructor with a complete bibliography of your sources along with your completed poster.
5. Completed posters will be displayed in class.
6. Your final assessment score will be based on the overall content and presentation of your dairy operation poster.

Agricultural Science I

Introduction to Dairy Production Scoring Guide

Name _____

Assessment Area	Criteria	0 Points	1 Point	2 Points	3 Points	4 Points	Weight	Total
Information and Content	Information is complete and facts are accurate	Failed	Poor	Fair	Good	Excellent	X 7.5	
Map Design	Map addresses all basic aspects of a dairy operation	Failed	Poor	Fair	Good	Excellent	X 7.5	
Captions	Captions explain the design of the dairy operation	Failed	Poor	Fair	Good	Excellent	X 5	
Organization	Well organized	Failed	Poor	Fair	Good	Excellent	X 2.5	
Technical Considerations	Spelling, grammar, and punctuation	Failed	Poor	Fair	Good	Excellent	X 2.5	
TOTAL								

Final Assessment Total _____/100 pts.

Comments:

