

Agricultural Science I

Curriculum Guide: *Introduction to Animal Nutrition*

Unit Objective:

Students will demonstrate an understanding of proper animal nutrition by comparing and contrasting two similar animal feeds and presenting their findings in a brief written summary.

Show-Me Standards: 1.8, SC4

Reference:

Introduction to Animal Nutrition. University of Missouri-Columbia, Instructional Materials Laboratory, 1996.

Students may use additional outside sources to complete this activity.

Instructional Strategies/Activities:

- Students will engage in study questions in lessons 1 through 5.
- Students will complete AS 3.1, Nutrient Recommendations; AS 4.1, Identifying Nutritional Requirements; and AS 5.1, Balancing Rations.
- Additional activities that relate to the unit objective can be found under the heading “Other Activities” in the following locations: p. 74 and p. 84.

Performance-Based Assessment:

Each student will locate two different animal feeds. Both feeds should be designed to meet the same nutritional requirements of the same type of animal. Students will compare and contrast the feeds on the basis of key nutrients and fiber, main ingredients, and appearance and present their findings in a brief written summary.

Assessment will be based on the overall content and presentation of the summary.

**Introduction to Animal Nutrition
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 locate two different animal feeds. Both feeds should be designed to meet the same nutritional requirements of the same type of animal.
2. Have students compare and contrast the feeds and present their findings in a brief written summary. Have students compare and contrast the feeds in the following ways.
 - ☐ Key nutrients and fiber: What is the percentage of crude protein, crude fat, and crude fiber in the feed?
 - ☐ Main ingredients: What are the top five ingredients?
 - ☐ Appearance: What is the general texture and appearance of the feed? For example, is the feed pelleted? Is it dry or does it include molasses? Can any ingredients be identified, such as rolled oats?
 - ☐ Based on the appearance of the feed and information from the feed tag, which feed would you choose and why?
3. Students should write the summary in complete sentences and use correct spelling, grammar, and punctuation.
4. Have students turn in the feed tags from their feeds along with their written summary.
5. The final assessment score will be based on the overall content and presentation of the written summary.

**Introduction to Animal Nutrition
Student Handout**

1. Locate two different animal feeds that are designed to meet the same nutritional requirements of the same type of animal.
2. Compare and contrast the feeds using the points below.
 - ☐ Key nutrients and fiber: What is the percentage of crude protein, crude fat, and crude fiber in the feed?
 - ☐ Main ingredients: What are the top five ingredients?
 - ☐ Appearance: What is the general texture and appearance of the feed? For example, is the feed pelleted? Is it dry or does it include molasses? Can any ingredients be identified, such as rolled oats?
 - ☐ Based on the appearance of the feed and information from the feed tag, which feed would you choose and why?
3. Present your findings in a brief written summary. Use complete sentences and correct spelling, grammar, and punctuation.
4. Turn in the tags from the feeds along with your written summary.
5. Your final assessment score will be based on the overall content and presentation of your written summary.

Agricultural Science I

Introduction to Animal Nutrition Scoring Guide

Name _____

Assessment Area	Criteria	0 Points	1 Point	2 Points	3 Points	4 Points	Weight	Total
Thoroughness	Addresses key nutrients and fiber, main ingredients, and appearance; information is complete	Failed	Poor	Fair	Good	Excellent	X 11.25	
Accuracy	Facts are accurate; evaluation of feeds is correct; explanations are persuasive	Failed	Poor	Fair	Good	Excellent	X 11.25	
Presentation	Well organized; no spelling, grammar, or punctuation errors	Failed	Poor	Fair	Good	Excellent	X 2.5	
TOTAL								

Final Assessment Total _____/100 pts.

Comments:

