Instructional Design Project: Unit 1

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EDTL 7100

5-E Learning Cycle Model for Animal Science

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| Theme-*Nutrition: Building Blocks* |  |
| Science Standards: Agricultural Course of StudyAnimal Husbandry: grades 9-10Animal Nutrition: grades 9-10 | Objectives:* Students will demonstrate knowledge and skills necessary for animal nutrition requirements
* Students will identify energy uses
* Students will identify protein uses
* Students will identify fiber uses
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| Time Requirements: 2 days *Technology* needed or supplement handoutsBuilding block examples to pass in class(actual energy, protein, and fiber examples), textbooks | Concepts/Skills:* Energy, Protein, and Fiber discussion of their purpose and uses
* Types of energy: Gross, Net, Available, TDN
* Protein needs: Milk Production, Tissue building, growth
* Fiber Needs: Rumen Digestion, milk production, milk fat percentage
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| **ENGAGING** THE STUDENTS | Day 1: Ask – What has livestock given us in our lives/What animals have been domesticated?* Complete **Pre-Assessment** Student Exercise.
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| **EXPLORING** WITH STUDENTS | Day 1: Discuss with students the building blocks of animal nutrition: energy and protein |
| **EXPLANATION** OF CONCEPTS | Day 1: View nutritional feed examples brought to class |
| **ELABORATING** TO EXTEND STUDENT LEARNING | Day 1: Assign **student research project** of individual building block research and text reading chapter 1 and 2 |
| **EVALUATING** STUDENT LEARNING | Review at beginning of Day 2* Nutritional Building Blocks; their value, uses, and applications
* Administer **Quiz #1**
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