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 Study  Animal Husbandry: grades 9-10  Animal 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 |
| Time Requirements: 2 days  *Technology* needed or supplement handouts  Building 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 |
| **ENGAGING** THE STUDENTS | Day 1: Ask – What has livestock given us in our lives/What animals have been domesticated?   * Complete **Pre-Assessment** Student Exercise. |
| **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** |