Arkansas CTE

Equine Science: Grades 11, 12

Adopted 2014

Assess Opportunities in the Equine Industry

1.1 Investigate the history and evolution of equine

1. Compare and contrast evolutionary horse-like animals. 1.1.1
2. Evaluate the taxonomy of the horse and its relatives in the zoological scheme. 1.1.2
3. Assess how humans have used the horse throughout history (food, military, sport, agriculture) 1.1.3

1.2 Investigate trends in the equine industry

1. Investigate the countries and states with the highest equine population. 1.2.1
2. Assess modern-day uses of horses in the United States. 1.2.2

1.3 Assess career opportunities available in the equine industry

1. Evaluate FFA opportunities involving the horse industry. 1.3.1
2. Research careers in the horse industry, and qualifications necessary for success in those careers. 1.3.2

1.4 Analyze factors associated with horse ownership

1. Assess the costs associated with owning a horse. 1.4.1
2. Analyze factors to consider when selecting a horse to purchase. 1.4.2

Compare Breeds, Types, and Classes of Horses

2.1 Differentiate between the Classification of Horses

1. Investigate common markings of horses, identifying those prevalent in each breed. 2.1.1
2. Distinguish between the colors of horses when a color modifier is present. 2.1.2
3. Investigate methods of measuring height in horses. 2.1.3

2.2 Investigate breeds of horses, identifying the characteristics of each.

1. Research and categorize common breeds of horses and ponies. 2.2.1
2. Classify horses according to breed. 2.2.2

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Analyze the anatomy and function of equine body systems

1. Investigate the body of a horse. 3.1.1

2. Analyze the systems and functions of horses, identifying major organs that make up each. 3.1.2
3. Compare and contrast the skeletal system of a horse to that of another animal. 3.1.3

3.2 Critique equine conformation to assess desired traits and characteristics

1. Investigate traits important for evaluating the conformation of a horse. 3.2.1
2. Assess proper conformation. 3.2.2

3.3 Investigate equine faults and unsoundness

1. Distinguish between a blemish and unsoundness. 3.3.1
2. Analyze common structural faults of a horse's legs and how they may be slowed and/or prevented. 3.3.2

3.4 Evaluate the appropriateness of gaits and maneuvers

1. Differentiate between the various gaits of the horse. 3.4.1
2. Critique gaits and maneuvers for correctness and competitiveness. 3.4.2

Assess the Health and Nutritional Needs of Horses

4.1 Investigate dental changes that occur as a horse ages

1. Assess the advantage of knowing the age of a horse. 4.1.1
2. Analyze the four changes in teeth that are indicators of different ages. 4.1.2
3. Investigate the eruption and appearance of baby and permanent teeth. 4.1.3
4. Analyze the effects of parrot mouth and monkey mouth. 4.1.4

4.2 Assess options in feed management

1. Evaluate the nutrient content of a variety of hay sources. 4.2.1
2. Evaluate the nutritional value of pasture grasses. 4.2.2
3. Use calculations to create an appropriate feed mix that meets feed management recommendations. 4.2.3
4. Analyze how activity levels influence nutritional needs. 4.2.4

4.3 Investigate parasites and diseases common in horses

1. Analyze the causes and effects of common infectious diseases in horses. 4.3.1
2. Investigate the effects of common internal and external parasites. 4.3.2
3. Assess the overall health of a horse, determining the need for a first aid kit and manual. 4.3.3

Assess Proper Care and Maintenance of Horses

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5.1 Evaluate the importance of proper grooming.

1. Evaluate the use of common equipment and supplies used in grooming. 5.1.1
2. Demonstrate proper grooming techniques. 5.1.2

5.2 Analyze the need for and importance of proper hoof care

1. Analyze the functions of internal and external parts of the hoof. 5.2.1
2. Assess health issues commonly related to the hoof. 5.2.2
3. Demonstrate the ability to recognize and properly care for horseshoeing equipment and supplies. 5.2.3

Investigate the Safety, Facility, and Equipment Needs of Horses

6.1 Practice safety in equine management

1. Demonstrate safety in handling and riding a horse. 6.1.1
2. Demonstrate how to safely load and haul a horse, and how to check the safety of a trailer 6.1.2
3. Demonstrate the process of haltering, saddling, and bridling a horse. 6.1.3

6.2 Assesses facility management practices

1. Evaluate factors to consider when planning an equine facility. 6.2.1
2. Analyze the need for fencing, identifying factors to consider in fence selection. 6.2.2

6.3 Assess the use of equine equipment in riding and handling.

1. Compare and contrast English and Western saddles. 6.3.1
2. Differentiate between the types of bits and their usage. 6.3.2

Critique the Behavior and Training of Horses

7.1 Interpret the behavior of horses to facilitate correction and training

1. Evaluate the horse's senses to determine how senses are used in training and behavior modification. 7.1.1
2. Identify & interpret how to read the emotions of a horse. 7.1.2
3. Analyze the behaviors of a horse to identify and correct a vice. 7.1.3

7.2 Assess the use of training aids and equipment with horses.

1. Identify training equipment and aids used to modify behavior in horses. 7.2.1
2. Demonstrate common training techniques. 7.2.2