Spanish Fork High School 2014-2015
Don Learning Targets for
Equine Science

1. **I can explain the role of FFA in agricultural education**
   - ➢ I can identify the events for the most important dates in FFA history
   - ➢ I can explain the FFA motto, colors and creed
   - ➢ I can label the parts of the FFA emblem
   - ➢ I can examine and explain three common FFA Career Development events
   - ➢ I can list and explain the FFA degree areas

2. **I can explain the role of supervised agricultural experience (SAE) programs in agricultural education.**
   - ➢ I can describe the types of SAEs
   - ➢ I can explain the following recordkeeping terminology: budget, asset, liability, net worth, capital, balance sheet, and inventory.
   - ➢ I can develop a plan for a personal SAE program
   - ➢ I can keep records on a personal SAE program in AET

3. **I can understand the history of the modern horse and the development of horse breeds, types, and classes.**
   - ➢ I can describe the development and domestication of modern horses
   - ➢ I can identify historical trends associated with human utilization of horses
   - ➢ I can describe and identify gaits and movements of horses
   - ➢ I can classify equines as pony, light, draft and long-eared
   - ➢ I can describe horse breeds, uses, and origin
   - ➢ I can identify horses based upon color and markings.

4. **I can analyze equine anatomy and physiology**
   - ➢ I can label the external anatomical parts of the horse
   - ➢ I can identify the parts and functions of equine animal organ systems including: muscular, skeletal, circulatory, respiratory, endocrine, excretory and nervous

5. **I can explain the equine digestion and nutrition**
   - ➢ I can identify the parts and function of the digestive system
   - ➢ I can list and discuss essential nutrients
   - ➢ I can identify feeds important to horses and the importance of a balanced ration
   - ➢ I can create a balanced equine ration
   - ➢ I can diagnose common equine nutritional disorders

6. **I can explore concepts in equine health management**
   - ➢ I can give symptoms and treatments for common equine diseases
   - ➢ I can list internal and external parasites, impacts and treatments

➢ I can properly care for hooves and explain internal and external hoof anatomy
➢ I can explain the importance of hoof care
➢ I can give reasons for horse care procedures including: floating teeth, vaccinations, sanitation, wound treatment, castration

7. **I can study career opportunities in equine science.**
   ➢ I can identify job opportunities in the equine industry
   ➢ I can list required skills for employment

8. **I can understand equine genetics.**
   ➢ I can define genetic terms including: dominant, recessive, homozygous, heterozygous, allele, co-domiance, phenotype, genotype
   ➢ I can correctly determine genetic probability with a punnett square
   ➢ I can identify horse coat colors and markings
   ➢ I can explain the complexity of horse coat color genetics
   ➢ I can analyze the importance of heritability on performance traits

9. **I can explore equine reproduction and parturition.**
   ➢ I can label and determine function for reproductive anatomy in males and females
   ➢ I can determine time to breed based on estrous cycle
   ➢ I can list reproductive hormones involved in estrous cycle
   ➢ I can describe care of pregnant mare and process of parturition
   ➢ I can examine reproductive technologies used in horse production

10. **I can describe how to safely work with horses.**
    ➢ I can examine common equine behaviors
    ➢ I can predict equine response based on typical behaviors
    ➢ I can demonstrate safe handling of horses
    ➢ I can explain the process of imprinting in foals
    ➢ I can identify abnormal horse behavior and correction methods

11. **I can use and care for equine tack.**
    ➢ I can label parts of Western and English tack
    ➢ I can clean and condition leather tack
    ➢ I can outline safe trailering and transportation of horses
    ➢ I can create a plan for an equine facility, including sketch.
    ➢ I can develop a waste management plan for an equine facility

12. **I can evaluate horses based upon conformation and pedigree.**
    ➢ I can determine desirable conformation traits in horses
    ➢ I can identify relationship between conformation and function
    ➢ I can list common unsoundnesses and blemishes in horses
    ➢ I can present oral and written reasons on conformation and performance classes of horses