

Spanish Fork High School 2014-2015

Don Learning Targets for

Animal Science 2

- 1. I can develop personal, leadership, and career skills through FFA participation.**
 - I can identify important personal skills and the strategies to use in developing the skills.
 - I can identify important leadership skills and the role of FFA participation in developing the skills.
 - I can list and describe proficiency awards appropriate for animal science.
 - I can list and describe career development events appropriate for animal science.
 - I can relate the importance of supervised agricultural experience to FFA achievement.
 - I can utilize FFA and supervised agricultural experience participation to gain advanced degrees of FFA membership.

- 2. I can explain the maintenance and expansion of supervised agricultural experience (SAE) programs in agricultural education.**
 - I can maintain and use SAE records
 - I can devise long-range plans for expanding SAE programs
 - I can evaluate the overall quality of a current SAE, and determine how to make it more productive or profitable.

- 3. I can apply management principles to improve livestock production systems.**
 - a. I can analyze beef production practices.**
 - I can identify types of beef production systems.
 - I can determine which breeds of beef animals are appropriate for the location, available facilities, and production system.
 - I can select beef animals to improve herd genetics.
 - I can determine the most cost effective feeds for supplying a balanced ration for beef animals.
 - I can describe the influence beef grade has on preparation procedures and retail price.
 - I can compare and contrast beef marketing options.
 - b. I can analyze dairy production practices**
 - I can select dairy cattle to encourage herd improvement.
 - I can determine the advantages and disadvantages of the major breeds of dairy cattle.
 - I can determine practices in the care and management of dairy cattle to improve production and overall herd health.
 - I can evaluate milk samples for quality and off-flavor characteristics.

- I can discuss the cheese-making process and identify different varieties of cheese.
 - I can discuss consumer issues related to dairy production practices (e.g., rBST use).
 - I can compare and contrast dairy marketing options.
 - I can determine how dairy product prices are affected by federal price supports and marketing orders.
- c. I can determine effective swine management practices**
- I can compare and contrast various pork production systems.
 - I can select swine appropriate for the location, available facilities, and production system.
 - I can determine practices in the care and management of swine to improve production and overall herd health.
 - I can describe the influence pork grade has on preparation procedures and retail price.
 - I can compare and contrast methods of marketing hogs.
- d. I can analyze the sheep and goat industry.**
- I can compare and contrast various sheep and goat production systems.
 - I can select sheep and goats appropriate for the location, available facilities, and production system.
 - I can determine practices in the care and management of sheep and goats to improve production and overall herd health.
 - I can determine consumer demand and marketing opportunities for sheep and goat products.
 - I can compare and contrast methods of marketing sheep and goat products.
- e. I can determine effective poultry production practices.**
- I can compare and contrast various poultry production systems.
 - I can determine practices in the care and management of poultry to improve production and overall flock health.
 - I can determine the nutritional requirements of different types of poultry.
 - I can determine the effect of environmental factors on poultry products.
 - I can discuss consumer issues related to poultry production.
 - I can compare and contrast methods of marketing poultry products.
- f. I can analyze the equine industry.**
- I can compare and contrast characteristics of equine production systems.
 - I can select equine animals based on pedigree.
 - I can determine practices, equipment, supplies, and facilities for proper care of equine.
 - I can demonstrate methods of handling horses safely.
 - I can determine the nutritional requirements of horses.
 - I can explain the methods of maintaining horse health and soundness.
 - I can discuss equine marketing options and economic importance.

4. **I can analyze the role of alternative animals in agriculture**
 - I can identify specialty agricultural animals (e.g., rabbit, elk, bison, llama, alpaca, ostrich, emu, honeybee, fish, etc.).
 - I can list the advantages and disadvantages of raising specialty animals in agriculture.
 - I can identify consumer products derived from specialty animals.

5. **I can analyze the small animal care industry.**
 - I can determine the scientific names and breeds for small animal species (e.g., dog, cat, reptile, rodent, bird, ornamental fish, etc.).
 - I can investigate opportunities for employment and entrepreneurship in the small animal care industry.
 - I can determine the nutritional needs of common small animals.
 - I can determine the housing and facility needs of common small animals.
 - I can determine the health care needs of common small animals.
 - I can compare and contrast reproductive processes of common small animals.

6. **I can design needed facilities and equipment for the safe and efficient production of livestock.**
 - I can discuss how the natural behaviors of livestock are used in planning livestock facilities.
 - I can identify facilities and equipment used in modern animal production.
 - I can explain how appropriate facilities and equipment enhance the safe and efficient production of animals.
 - I can select facilities and equipment for safely managing animals to enhance production efficiency.

7. **I can plan a facility that meets standards for the legal, safe, ethical, and efficient production of livestock.**
 - I can list the general standards for an animal facility.
 - I can determine applicable industry and zoning standards for an animal facility.
 - I can prepare a general description of an animal facility for a specific production enterprise, including a sketch of the facility layout.
 - I can develop a biosecurity plan for an animal production facility.

8. **I can develop a waste management plan for an animal production enterprise.**
 - I can determine/estimate wastes produced by an animal production enterprise.
 - I can investigate appropriate practices for the disposal of animal wastes.
 - I can design a facility for the disposal of animal wastes.

9. **I can investigate the role of veterinary medicine in the animal industry.**
 - I can discuss the meaning and importance of veterinary medicine.

- I can describe the delivery of animal health care services, including the major activities in a veterinary medical facility.
- I can name and describe major occupations in veterinary medicine.
- I can describe protocol in animal restraint.
- I can assess the vital signs of common agricultural animals.
- I can determine normal and abnormal internal sounds of animals.
- I can use laboratory testing to identify health conditions.
- I can determine methods used in the administration of medicines.
- I can use species-appropriate animal identification practices.
- I can describe breed and gender surgical practices, including castration, docking, and dehorning.
- I can explain the importance of aseptic and disinfectant practices with livestock management surgery.

10. I can recognize potential applications of biotechnology in the animal industry.

- I can distinguish potential applications of biotechnology in the animal industry.
- I can define biotechnology, and explore the historical impact it has had on animal agriculture.
- I can investigate applications of biotechnology in animal agriculture.
- I can identify and evaluate risks associated with biotechnology in animal agriculture.
- I can define bioethics, and explain its implications in animal agriculture.