



EXAM INFORMATION

Items

79

Points

80

Prerequisites

NONE

Grade Level

9-12

Course Length

ONE YEAR

Career Cluster

AGRICULTURE, FOOD AND NATURAL
RESOURCES

Performance Standards

INCLUDED

Certificate Available

YES

DESCRIPTION

The application of equine science and technology principles, which include genetics, anatomy, physiology/nutrition, diseases, pests, and management practices. The scientific processes of observation, measurement, hypothesizing, data gathering, interpretation, analysis, and application are stressed.

EXAM BLUEPRINT

STANDARD

PERCENTAGE OF EXAM

1- Student Organizations in Agricultural Education	3%
2- Agricultural Experience in Agricultural Education	3%
3-Career Opportunities in Equine Science	5%
4- History and Development of Horses	15%
5- Analyze Equine Anatomy and Physiology	14%
6- Equine Nutrition and Feeding Management	10%
7- Equine Health Management	5%
8- Understand Horse Genetics	6%
9- Explore Horse Reproduction and Parturition	14%
10- Study and Utilize Equine Behavior Training	14%
11- Equine Facilities and Equipment	5%
12- Evaluate and Select a Horse	6%



STANDARD 1

STUDENTS WILL DEVELOP AN UNDERSTANDING OF THE ROLE OF STUDENT ORGANIZATIONS IN AGRICULTURAL EDUCATIONAL PROGRAMS

- Objective 1** Students will understand the history and organization of a student organization.
1. Students will explain how, when, and why a student organization was organized.
 2. Students will explain the mission and strategies, color, motto, parts of the emblem, and the organizational structure of a student organization
 3. Students will recite and explain the meaning of a student organization creed.
 4. Students will explain the purpose of a Program of Activities and its committee structure.
- Objective 2** Students will discover opportunities in student organization.
1. Students will describe how a student organization develops leadership skills, personal growth, and career success.
 2. Students will identify major state and national activities available to student organization members.
- Objective 3** Students will determine student organization degrees, awards, and Career Development Events.
1. Students will explain the student organization degree areas.
 2. Students will identify the student organization proficiency awards.
 3. Students will explain various team and individual Career Development Events.

Standard 1 Performance Evaluation included below (Optional)

STANDARD 2

STUDENTS WILL UNDERSTAND THE BENEFITS OF A SUPERVISED AGRICULTURAL EXPERIENCE PROGRAM

- Objective 1** Students will determine the benefits of an agricultural experience.
1. Students will explain the importance of goals and careers ladders.
 2. Students will define supervised horticultural/agricultural experience.
 3. Students will explain the benefits of supervised horticultural/agricultural experience programs.
- Objective 2** Students will determine the kinds of agricultural experience programs.
1. Students will explain the difference between entrepreneurship and placement agricultural experiences.
 2. Students will describe research/experimentation and exploratory agricultural experiences.
 3. Students will explain the characteristics of a good agricultural experiences program and student responsibilities that are involved.
- Objective 3** Students will research possible agricultural experience programs.
1. Students will identify career interest areas in agriculture.
 2. Students will identify skills needed for career success.
 3. Students will explain opportunities for agricultural experience programs.
- Objective 4** Students will plan an agricultural experience program.
1. Students will identify the steps in planning an agricultural experience program.
 2. Students will identify the parts of an annual agricultural experience program plan.



3. Students will discuss the function of a training plan and/or agreement in an agricultural experience program.

Objective 5

Students will implement agricultural experience programs.

1. Students will discuss the importance of keeping records on an agricultural experience program.
2. Students will explain the types of financial records needed to support a chosen agricultural experience program.
3. Students will identify standards to follow in keeping records on an agricultural experience program.

Standard 2 Performance Evaluation included below (Optional)

STANDARD 3

STUDENTS WILL STUDY CAREER OPPORTUNITIES IN EQUINE SCIENCE

- Objective 1 Students will present the general skills required for employment.
- Objective 2 Students will use resources and assess information.
- Objective 3 Students will describe the educational opportunities available.
- Objective 4 Students will list three ways to gain experience in the horse industry.
- Objective 5 Students will identify eight careers and entrepreneurship opportunities in equine science.

Standard 3 Performance Evaluation included below (Optional)

STANDARD 4

STUDENTS WILL UNDERSTAND THE HISTORY OF THE MODERN HORSE AND THE DEVELOPMENT OF HORSE BREEDS, TYPES, AND CLASSES

- Objective 1 Students will describe the development of modern horses.
- Objective 2 Students will discuss the domestication of the horse.
- Objective 3 Students will identify historical trends of human utilization of horses.
- Objective 4 Students will describe the current horse industry.
- Objective 5 Students will describe the gaits and movements of horses.
- Objective 6 Students will classify and describe equine as pony, light, draft, and long-eared.
- Objective 7 Students will list and describe equine breeds and their origins.

Standard 4 Performance Evaluation included below (Optional)

STANDARD 5

STUDENTS WILL ANALYZE EQUINE ANATOMY AND PHYSIOLOGY

- Objective 1 Students will identify the external parts of the horse.
- Objective 2 Students will explore equine bodily systems.
- Objective 3 Students will describe the skeletal and muscular systems of the horse.



- Objective 4 Students will describe the digestive system of the horse.
- Objective 5 Students will describe the reproductive systems of the horse.

Standard 5 Performance Evaluation included below (Optional)

STANDARD 6

STUDENTS WILL LEARN ABOUT EQUINE NUTRITION AND FEEDING MANAGEMENT

- Objective 1 Students will list and discuss basic nutrients.
- Objective 2 Students will identify feeds important to horses.
- Objective 3 Students will balance an equine ration.
- Objective 4 Students will list and describe equine nutritional disorders.

Standard 6 Performance Evaluation included below (Optional)

STANDARD 7

STUDENTS WILL EXPLORE CONCEPTS IN EQUINE HEALTH MANAGEMENT

- Objective 1 Students will list, identify, and describe equine diseases.
- Objective 2 Students will identify horse internal and external parasites.
- Objective 3 Students will properly care for hooves and explain hoof anatomy.
- Objective 4 Students will determine proper horse health management practices.
 - 1. Vaccination program
 - 2. Teeth floating and aging
 - 3. Sanitation

Standard 7 Performance Evaluation included below (Optional)

STANDARD 8

STUDENTS WILL UNDERSTAND HORSE GENETICS

- Objective 1 Students will explore the fundamentals of genetics.
- Objective 2 Students will investigate horse coat color and markings.
- Objective 3 Students will explain the heritability of performance traits.

Standard 8 Performance Evaluation included below (Optional)

STANDARD 9

STUDENTS WILL EXPLORE HORSE REPRODUCTION AND PARTURITION

- Objective 1 Students will describe the physiology of the reproduction tracts of stallions and mares.



- Objective 2 Students will summarize the estrus cycle and proper times to breed.
- Objective 3 Students will describe proper horse gestation management.
- Objective 4 Students will explore equine reproductive technology.
 - 1. Artificial insemination
 - 2. Embryo transfer
 - 3. Cloning
- Objective 5 Students will discuss proper care during pregnancy and parturition.
- Objective 6 Students will describe the horse condition scoring system.

Standard 9 Performance Evaluation included below (Optional)

STANDARD 10

STUDENTS WILL STUDY AND UTILIZE EQUINE BEHAVIOR TRAINING

- Objective 1 Students will list and discuss horse behavioral categories.
- Objective 2 Students will demonstrate safe handling of horses.
- Objective 3 Students will explain imprinting.
- Objective 4 Students will identify abnormal horse behavior (vices).
- Objective 5 Students will discuss how to load and haul a horse and how to check the safety of a trailer.

Standard 10 Performance Evaluation included below (Optional)

STANDARD 11

STUDENTS WILL LEARN ABOUT EQUINE FACILITIES AND EQUIPMENT

- Objective 1 Students will identify, discuss, and describe the usage of Western and English tack.
- Objective 2 Students will outline the transportation of horses.
- Objective 3 Students will investigate horse facilities and fencing.
- Objective 4 Students will discuss waste management.

Standard 11 Performance Evaluation included below (Optional)

STANDARD 12

STUDENTS WILL KNOW HOW TO EVALUATE AND SELECT A HORSE

- Objective 1 Students will summarize the considerations of purchasing a horse.
- Objective 2 Students will recognize the ideal horse conformation characteristics.
- Objective 3 Students will recognize conformation faults and predict potential unsoundness and/or lameness.
- Objective 4 Students will present oral and written reasons in horse evaluation.

Standard 12 Performance Evaluation included below (Optional)



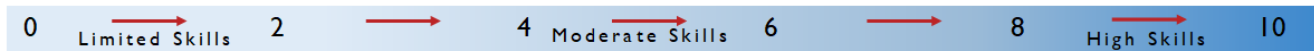
Equine Science, Year Performance Standards (Optional)

Performance assessments may be completed and evaluated at any time during the course. The following performance skills are to be used in connection with the associated standards and exam. To pass the performance standard the student must attain a performance standard average of **8 or higher** on the rating scale. Students may be encouraged to repeat the objectives until they average **8 or higher**.

Students Name _____

Class _____

PERFORMANCE RATING SCALE



STANDARD 1 Student Organizations in Agricultural Education

Score:

- Attend a student organization meeting
- Develop short and long-range leadership and personal development goals

STANDARD 2 Agricultural Experience in Agricultural Education

Score:

- Record all transactions and activities for an agricultural experience, using an approved record book (optional)
- Develop short and long-range agricultural experience goals

STANDARD 3 Career Opportunities in Equine Science

Score:

- Correctly classify specific equine breeds
- Identify equine breeds

STANDARD 4 History and Development of the Modern Horse

Score:

- Correctly classify specific equine breeds
- Identify equine breeds

STANDARD 5 Examine Equine Anatomy and Physiology

Score:

- Identify the parts of the skeletal system
- Identify the parts of the reproductive system
- Identify the parts of the digestive system
- Identify the external parts of a horse

STANDARD 6 Learn about Equine Nutrition and Feeding Management

Score:

- Develop a balanced equine ration



STANDARD 7 Equine Health Management

Score:

- Identify symptoms of equine diseases and parasites

STANDARD 8 Horse Genetics

Score:

- Predict the heritability of coat color, markings, and performance traits

STANDARD 9 Explore Reproduction and Parturition

Score:

- Develop a breeding schedule for a mare

STANDARD 10 Equine Behavior Training

Score:

- Demonstrate the safe handling of horses

STANDARD 11 Equine Facilities and Equipment

Score:

- Develop a waste management plan

STANDARD 12 Evaluate and Select a Horse

Score:

- Present oral reasons in horse evaluation

PERFORMANCE STANDARD AVERAGE SCORE: