



EXAM INFORMATION

Items

80

Points

80

Prerequisites

EQUINE SCIENCE A

Grade Level

9-12

Course Length

ONE SEMESTER

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- Horse Genetics	12%
4- Explore Horse Production and Parturition	32%
5- Equine Behavior Training	26%
6- Equine Facilities and Equipment	9%
7- Evaluate and Select a Horse	15%



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 organizations.
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 experience 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 S agricultural experience AE 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 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 3 Performance Evaluation included below (Optional)

STANDARD 4

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 4 Performance Evaluation included below (Optional)

STANDARD 5

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 5 Performance Evaluation included below (Optional)

STANDARD 6

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 6 Performance Evaluation included below (Optional)

STANDARD 7

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 7 Performance Evaluation included below (Optional)



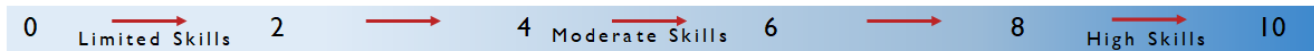
Equine Science B Performance Standards (Optional)

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 Organization in Agricultural Education **Score:**

- Attend a student organization meeting

STANDARD 2 Agricultural Experience in Agricultural Education **Score:**

- Record all transactions and activities for an agricultural experience, using an approved record book (optional)

STANDARD 3 Horse Genetics **Score:**

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

STANDARD 4 Understand Horse Reproduction and Parturition **Score:**

- Develop a breeding schedule for a mare

STANDARD 5 Study and Utilize Equine Behavior Training **Score:**

- Demonstrate the safe handling of horses

STANDARD 6 Learn about Equine Facilities and Equipment **Score:**

- Develop a waste management plan

STANDARD 7 Know and Evaluate how to select a horse **Score:**

- Select a horse based on conformation characteristics
- Present oral reasons in horse evaluation

PERFORMANCE STANDARD AVERAGE SCORE: