2024 Edition

Animal Science Merit Badge

SCOUTS PARTICIPATING IN A SCOUTMASTER BUCKY MERIT BADGE OPPORTUNITY (ONLINE OR IN PERSON), PLEASE CONSIDER ALSO USING THE ANIMAL SCIENCE MERIT BADGE CLASS PREPARATION PAGE FOR CLARIFICATIONS, INSIGHTS, AND EXPECTATIONS.

https://scoutmasterbucky.com/merit-badges/animal-science/class-prep/

ANIMAL SCIENCE MERIT BADGE WORKBOOK

REQUIREMENT 1: Name four breeds of livestock in each of the following classifications: horses, dairy cattle, beef cattle, sheep, hogs, poultry, and goats. Tell their principal uses and merits. Tell where the breeds originated.

HORSES:

Breed #1:

Principal uses and merit:

Origination:

Breed #2:

Principal uses and merit:

Origination:

Breed #3:

Principal uses and merit:

Origination:

Breed #4:

Principal uses and merit:

Origination:

DAIRY CATTLE:
Breed #1:
Principal uses and merit:
Origination:
Breed #2:
Principal uses and merit:
Origination:

Breed #3:
Principal uses and merit:
Origination:
Breed #4:
Principal uses and merit:
Origination:

BEEF CATTLE:
Breed #1:
Principal uses and merit:
Origination:
Breed #2:
Principal uses and merit:
Origination:

Breed #3:

Principal uses and merit:

Origination:

Breed #4:

Principal uses and merit:

Origination:

SHEEP:
Breed #1:
Principal uses and merit:
Origination:
Breed #2:
Principal uses and merit:
Origination:

Breed #3:
Principal uses and merit:
Origination:
Breed #4:
Principal uses and merit:
Origination:

HOGS:
Breed #1:
Principal uses and merit:
Origination:
Breed #2:
Principal uses and merit:
Origination:

Breed #3:

Principal uses and merit:

Origination:

Breed #4:

Principal uses and merit:

Origination:

POULTRY:
Breed #1:
Principal uses and merit:
Origination:
Breed #2:
Principal uses and merit:
Origination:

Breed #3:
Principal uses and merit:
Origination:
Breed #4:
Principal uses and merit:
Origination:

GOATS:
Breed #1:
Principal uses and merit:
Origination:
Breed #2:
Principal uses and merit:
Origination:

Breed #3:

Principal uses and merit:

Origination:

Breed #4:

Principal uses and merit:

Origination:

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REQUIREMENT 2:	List five diseases that afflict the animals in each of the classifications in requirement 1. Also list five diseases of poultry. Describe the symptoms of each disease and explain how each is contracted and how it could be prevented.

HORSES:

Disease #1:

Symptoms:

Contracted:

Prevention:

Breed #2:

Symptoms:

Contracted:

Prevention:

Breed #3:
Symptoms:
Contracted:
Prevention:
Breed #4:
Symptoms:
Contracted:
Prevention:

DAIRY CATTLE:
Breed #1:
Symptoms:
Contracted:
Prevention:
Breed #2:
Symptoms:
Contracted:
Prevention:

Breed #3:
Symptoms:
Contracted:
Prevention:
Breed #4:
Symptoms:
Contracted:
Prevention:

BEEF CATTLE:
Breed #1:
Symptoms:
Contracted:
Prevention:
Breed #2:
Symptoms:
Contracted:
Prevention:

Breed #3:
Symptoms:
Contracted:
Prevention:
Breed #4:
Symptoms:
Contracted:
Prevention:

SHEEP:
Breed #1:
Symptoms:
Contracted:
Prevention:
Breed #2:
Symptoms:
Contracted:
Prevention:

Breed #3:
Symptoms:
Contracted:
Prevention:
Breed #4:
Symptoms:
Contracted:
Prevention:

HOGS:
Breed #1:
Symptoms:
Contracted:
Prevention:
Breed #2:
Symptoms:
Contracted:
Prevention:

Breed #3:
Symptoms:
Contracted:
Prevention:
Breed #4:
Symptoms:
Contracted:
Prevention:

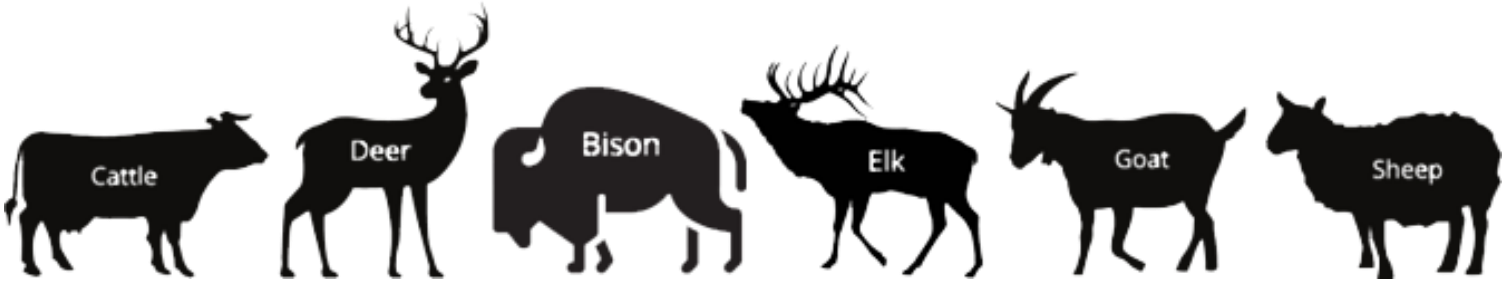
POULTRY:
Breed #1:
Symptoms:
Contracted:
Prevention:
Breed #2:
Symptoms:
Contracted:
Prevention:

Breed #3:
Symptoms:
Contracted:
Prevention:
Breed #4:
Symptoms:
Contracted:
Prevention:

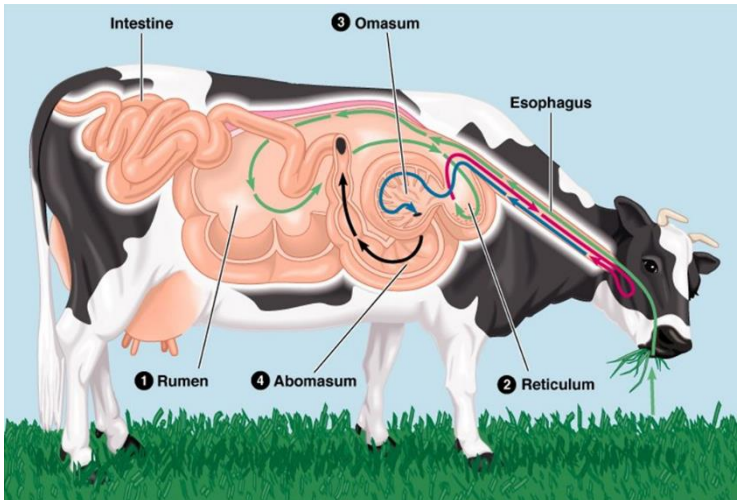
GOATS:
Breed #1:
Symptoms:
Contracted:
Prevention:
Breed #2:
Symptoms:
Contracted:
Prevention:

Breed #3:
Symptoms:
Contracted:
Prevention:
Breed #4:
Symptoms:
Contracted:
Prevention:

REQUIREMENT 3: Explain the differences in the digestive systems of ruminants, horses, pigs, and poultry. Explain how the differences in structure and function among these types of digestive tracts affect the nutritional management of these species.



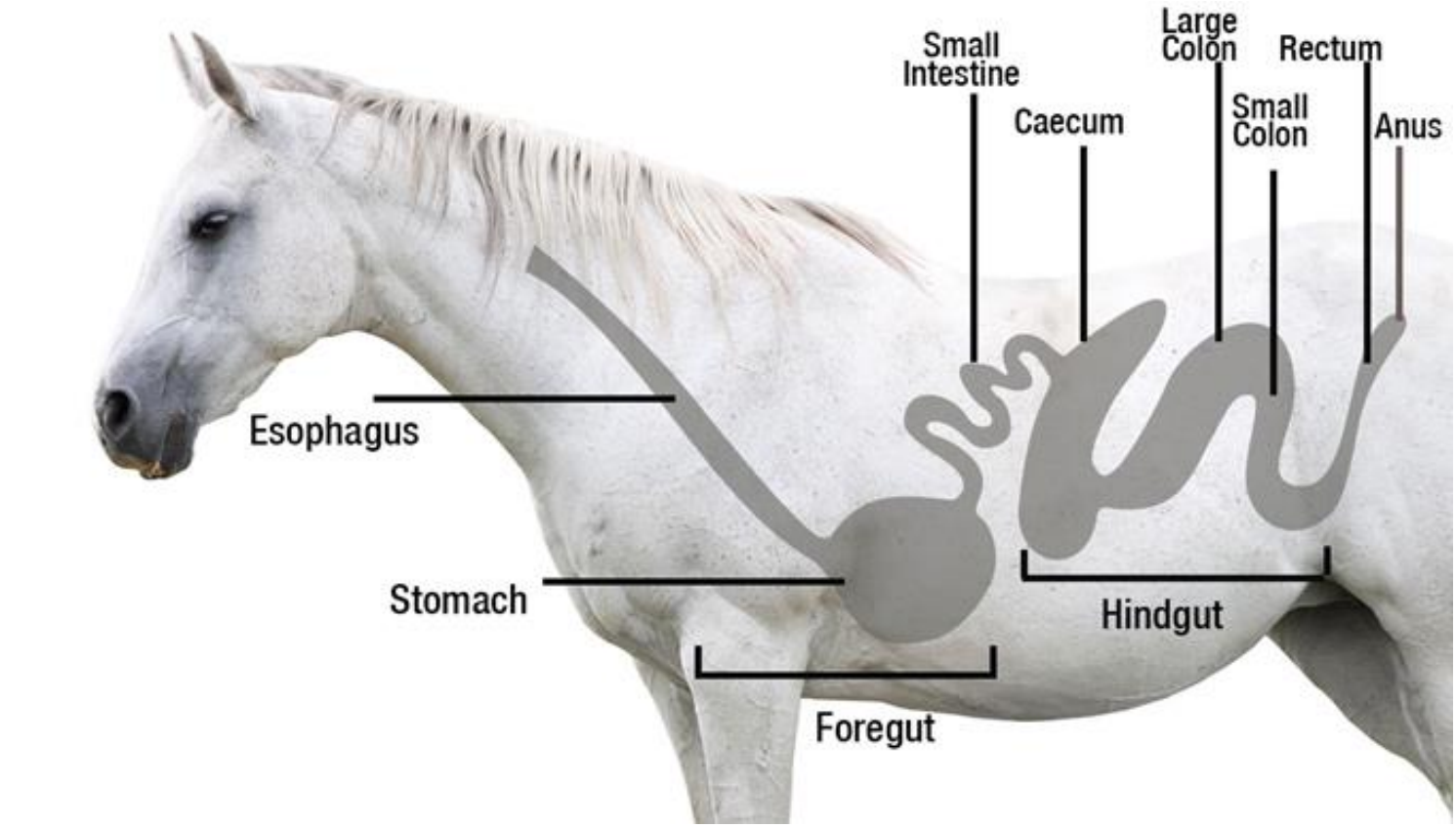
CATTLE:



Digestive System Characteristics:

Differences in Structure and Function and Nutritional Affect:

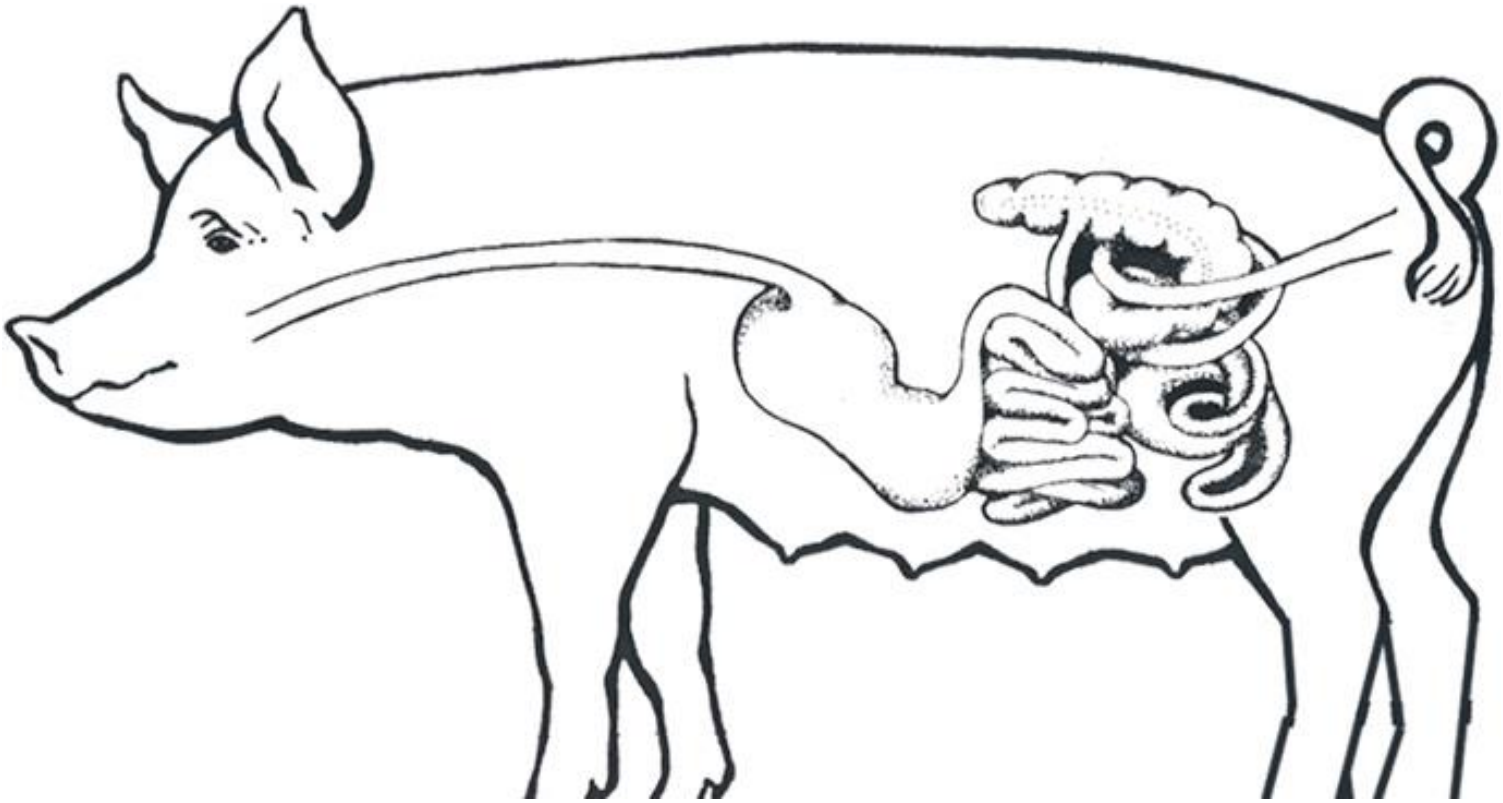
HORSES:



Digestive System Characteristics:

Differences in Structure and Function and Nutritional Affect:

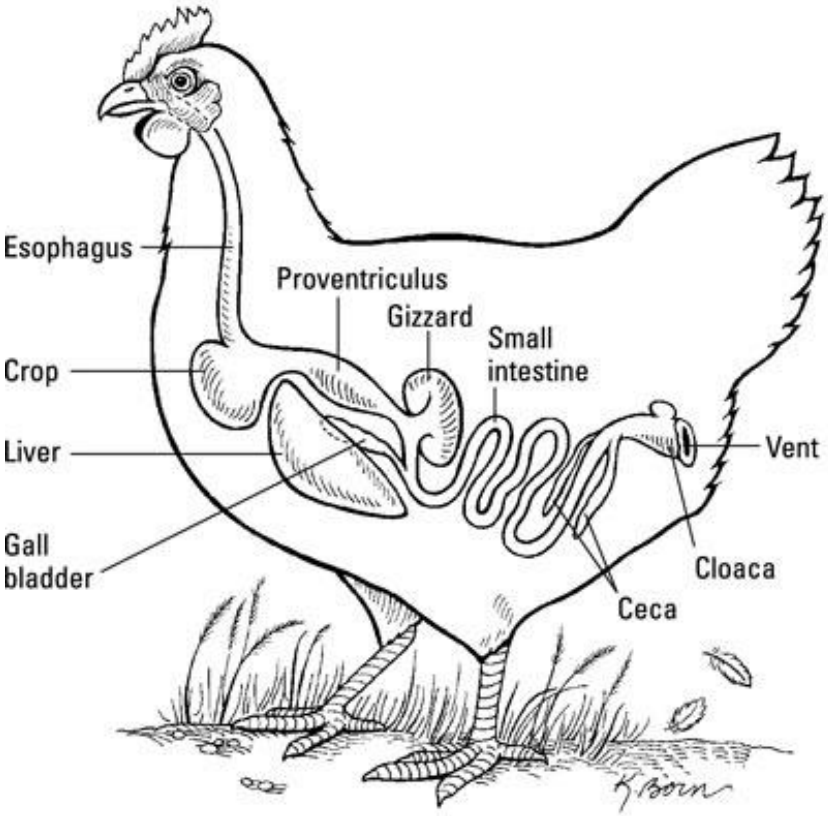
PIGS:



Digestive System Characteristics:

Differences in Structure and Function and Nutritional Affect:

POULTRY:



Digestive System Characteristics:

Differences in Structure and Function and Nutritional Affect:

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REQUIREMENT 4:	Select one type of animal—beef cow, dairy cow, horse, sheep, goat, or hog, or a poultry flock—and tell how you would properly manage it. Include in your discussion nutritional (feeding) concerns, housing, disease prevention, waste control/removal, breeding programs, and biosecurity as appropriate.

Beef Cow

Dairy Cow

Horse

Sheep

Goat

Hog

Poultry

Selected Animal Type:

Proper Management:

Nutritional (Feeding) Concerns:

Housing:

Disease Prevention:

Waste Control / Removal:
Breeding Programs:
Biosecurity:
REQUIREMENT 5: Explain the importance of setting clear goals for any animal breeding program.
Notes:

REQUIREMENT 5:	Tell how purebred lines of animals are produced.

Notes:

REQUIREMENT 5:	Explain the practice of crossbreeding and the value of this practice.

Notes:

COMPLETE ONE OF THE FOLLOWING OPTIONS FOR REQUIREMENT 6

PLEASE NOTE THAT EACH OPTION FOR REQUIREMENT 6 IN THE ANIMAL SCIENCE MERIT BADGE IS A SEPARATE SUPPLEMENTAL WORKBOOK SECTION

Choose the option you want to do for completing Requirement 6 and download that section for inclusion with the main section of the Scoutmaster Bucky Animal Science Merit Badge Workbook.

BEEF CATTLE OPTION	**DAIRYING OPTION**
HORSE OPTION	**SHEEP OPTION**
HOG OPTION	**AVIAN OPTION**

REQUIREMENT 7:	Find out about three career opportunities in animal science.
Career Opportunity #1:	
Career Opportunity #2:	
Career Opportunity #3:	
REQUIREMENT 7:	Pick one and find out the education, training, and experience required for this profession. Discuss this with your counselor.
Selected Career Opportunity:	
Educational Requirements:	
Training Requirements:	
Experience Requirements:	
REQUIREMENT 7:	Explain why this profession might interest you.
Notes:	