



Animal Science Merit Badge Workbook

SCOUTMASTER BUCKY

Scouts participating in a Scoutmaster Bucky merit badge opportunity, whether online or in person, should consider using the Animal Science merit badge pamphlet for discovery and knowledge, along with the class preparation pages for clarifications, insights, and expectations.

<https://scoutmasterbucky.com/merit-badges/animal-science/animal-science-pamphlet.pdf>

<https://scoutmasterbucky.com/merit-badges/animal-science/animal-science-cpp.pdf>

REQUIREMENT 1: Name two 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:



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DAIRY CATTLE:



Breed #1:

Principal uses and merit:

Origination:



Breed #2:

Principal uses and merit:

Origination:



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BEEF CATTLE:



Breed #1:

Principal uses and merit:

Origination:



Breed #2:

Principal uses and merit:

Origination:



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SHEEP:



Breed #1:

Principal uses and merit:

Origination:





Breed #2:

Principal uses and merit:

Origination:



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



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POULTRY:



Breed #1:

Principal uses and merit:

Origination:



Breed #2:

Principal uses and merit:

Origination:



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GOATS:



Breed #1:

Principal uses and merit:

Origination:



Breed #2:

Principal uses and merit:

Origination:



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REQUIREMENT 2:

List two diseases that afflict the animals in each of the classifications in requirement 1. Describe the symptoms of each disease and explain how each is contracted and how it could be prevented.

HORSES:



Disease #1:

Symptoms:

Contracted:

Prevention:



Disease #2:

Symptoms:

Contracted:

Prevention:



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DAIRY CATTLE:



Disease #1:

Symptoms:

Contracted:

Prevention:



Disease #2:

Symptoms:

Contracted:

Prevention:



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BEEF CATTLE:



Disease #1:

Symptoms:

Contracted:

Prevention:



Disease #2:

Symptoms:

Contracted:

Prevention:



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SHEEP:



Disease #1:

Symptoms:

Contracted:

Prevention:



Disease #2:

Symptoms:

Contracted:

Prevention:





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



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



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GOATS:



Disease #1:

Symptoms:

Contracted:

Prevention:



Disease #2:

Symptoms:

Contracted:

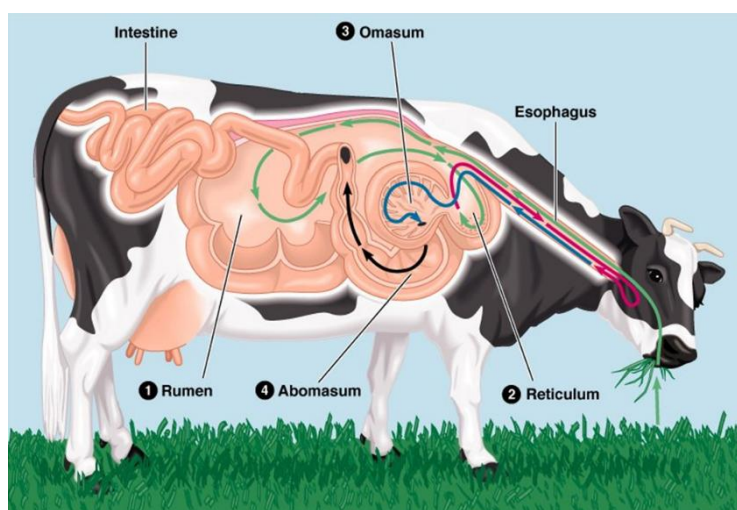
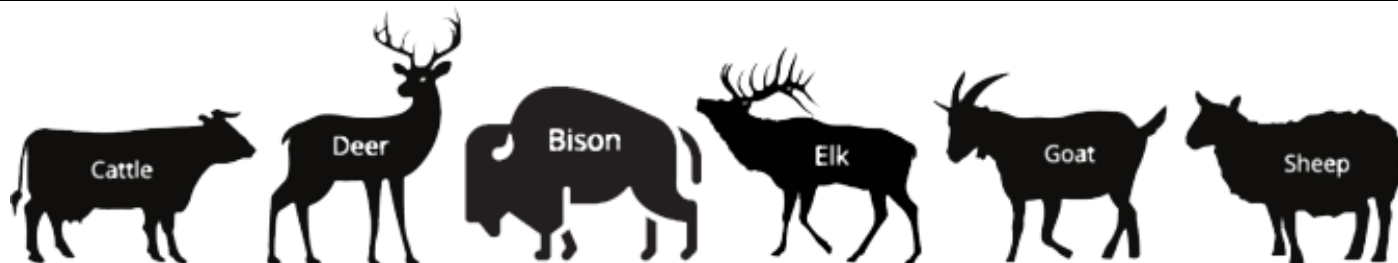
Prevention:



REQUIREMENT 3:

Draw models of the digestive tracts 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.

RUMINANTS:

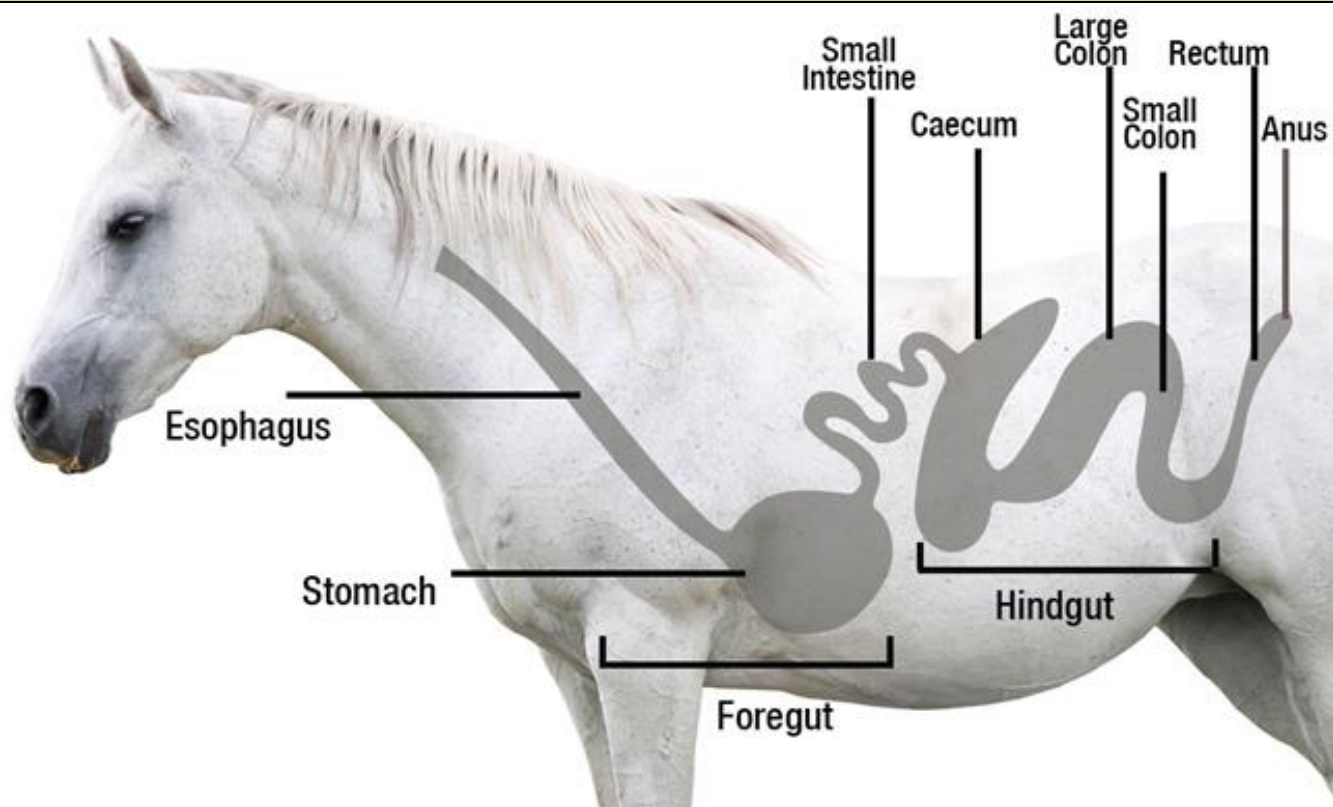


Digestive System Characteristics:

Differences in Structure and Function and Nutritional Affect:



HORSES:



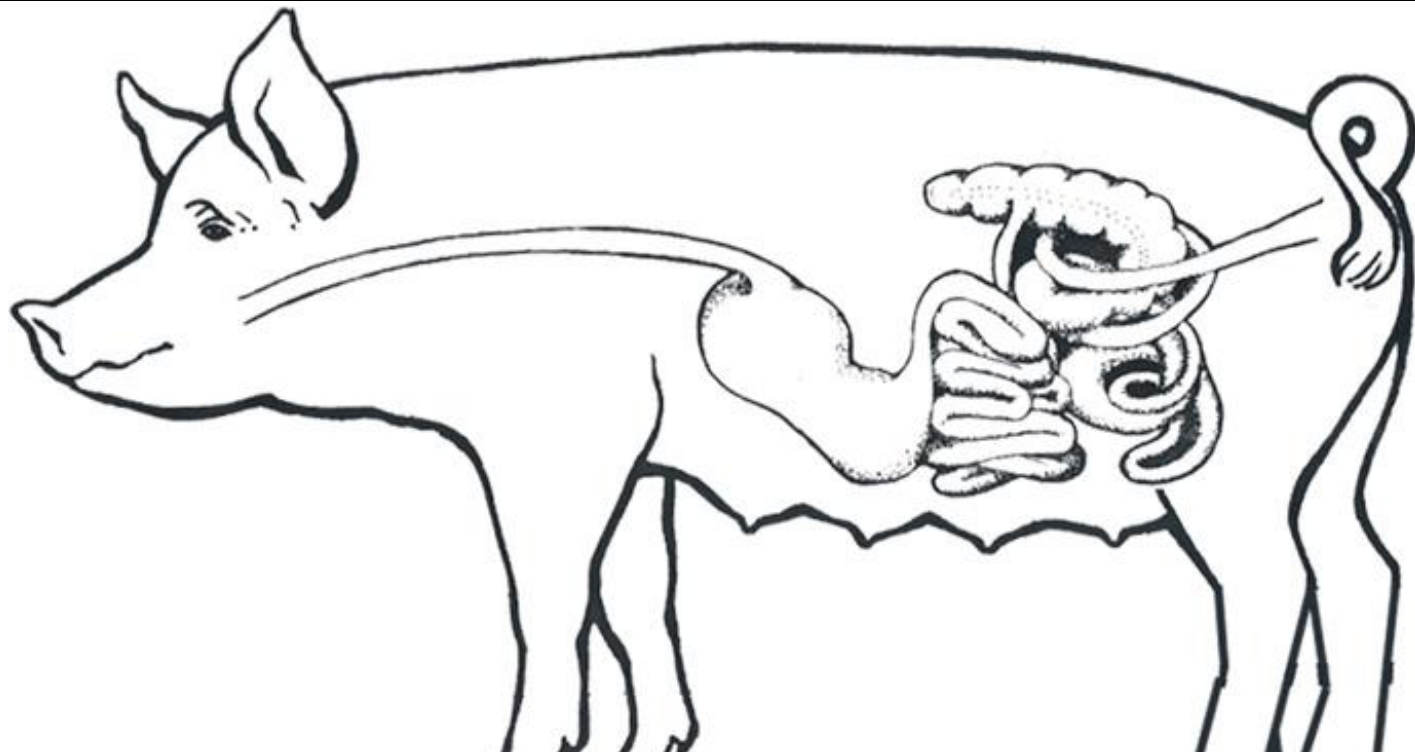
Digestive System Characteristics:

Differences in Structure and Function and Nutritional Affect:



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PIGS:

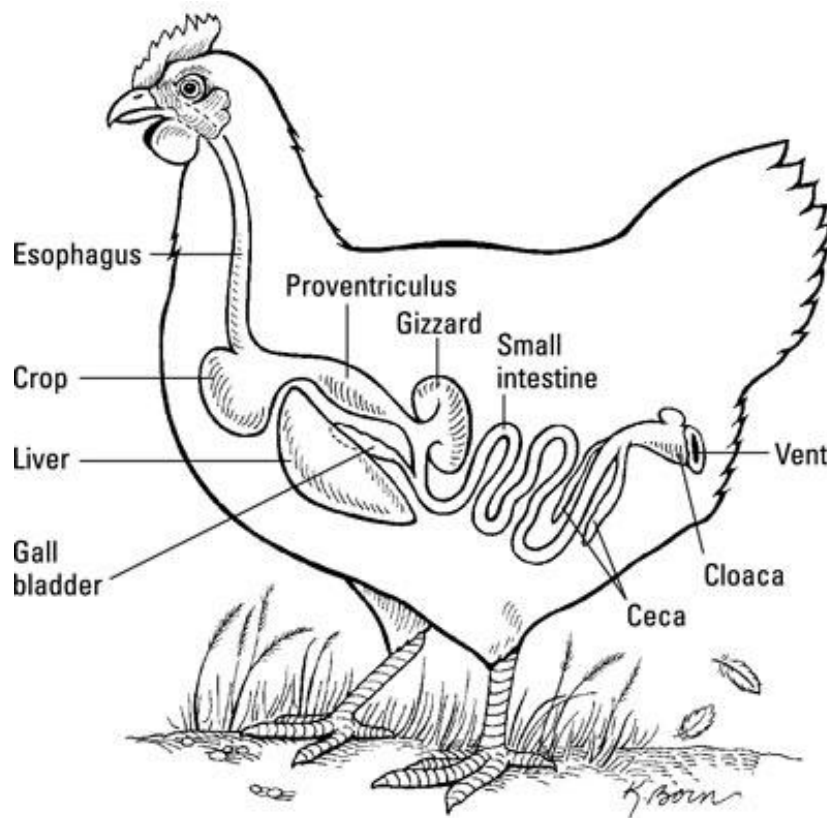


Digestive System Characteristics:

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:



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Waste Control / Removal:

Breeding Programs:

Biosecurity:

REQUIREMENT 5a: Explain how agricultural producers make desired improvements to their stock through breeding practices and programs.

Notes:



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REQUIREMENT 5b: Explain the term pure breeding.

Notes:

REQUIREMENT 5b: Explain the term cross breeding.

Notes:

REQUIREMENT 5c: List two modern technologies used in the production of horses, dairy cattle, beef cattle, sheep, hogs, poultry, or goats, and tell what the advantages are of using the technology.

TECHNOLOGY #1:

Type:

Animal(s):

Advantages:

TECHNOLOGY #2:

Type:

Animal(s):

Advantages:



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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 or GOAT OPTION](#)

[HOG OPTION](#)

[AVIAN OPTION](#)





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REQUIREMENT 9: Find out about three career opportunities in animal science.

Career Opportunity #1:

Career Opportunity #2:

Career Opportunity #3:

REQUIREMENT 9: Pick one and find out the education, training, and experience required for this profession. Discuss this with your counselor.

Selected Career Opportunity:

Education Requirements:

Training Requirements:

Experience Requirements:

REQUIREMENT 9: Explain why this profession might interest you.

Notes: