ANIMAL SCIENCE MERIT BADGE WORKBOOK

This Scoutmaster Bucky Merit Badge Workbook is based off the current Scouts BSA Requirements.

Consider also using the Animal Science merit badge class preparation page for clarification and expections when participating in a Scoutmaster Bucky merit badge opportunity (<u>online</u> or <u>in-person</u>).

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

Scout's
Name:
Beef Cattle Option
This workbook covers only one of the options for this merit badge. Check the Scoutmaster Bucky website for the other possibilities.
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.
Four breeds of horses
Four breeds of dairy cattle
Four breeds of beef cattle

Four breeds of sheep				
Four breeds of hogs				
RECHIREMENT 2: Lie	t five diseases that afflict th	ne animals in each of the cla	assifications in requirement 1. Also	list five
dispasses of poultry D	escribe the symptoms of e	ach disease and explain ho	w each is contracted and how it o	ould be
prevented.	escribe the symptoms of c	· ·		
prevented.				
prevented.	es, how each are contracted and h			
prevented.				
Prevented. Five diseases afflicting horse	es, how each are contracted and h	ow each could be prevented		
Prevented. Five diseases afflicting horse		ow each could be prevented		
Prevented. Five diseases afflicting horse	es, how each are contracted and h	ow each could be prevented		
Prevented. Five diseases afflicting horse	es, how each are contracted and h	ow each could be prevented		
Prevented. Five diseases afflicting horse	es, how each are contracted and h	ow each could be prevented		
Prevented. Five diseases afflicting horse	es, how each are contracted and h	ow each could be prevented		
Prevented. Five diseases afflicting horse	es, how each are contracted and h	ow each could be prevented		
Prevented. Five diseases afflicting horse	es, how each are contracted and h	ow each could be prevented		
Prevented. Five diseases afflicting horse	es, how each are contracted and h	ow each could be prevented		
Prevented. Five diseases afflicting horse	es, how each are contracted and h	ow each could be prevented		
Prevented. Five diseases afflicting horse	es, how each are contracted and h	ow each could be prevented		
Prevented. Five diseases afflicting horse	es, how each are contracted and h	ow each could be prevented		
Prevented. Five diseases afflicting horse	es, how each are contracted and h	ow each could be prevented		

Five diseases afflicting beef cattle, how each are contracted and how each could be prevented
Five diseases afflicting sheep, how each are contracted and how each could be prevented
ri adiana amin'ny tanàna mandra dia mandra dia dia dia dia dia dia dia dia dia di
Five diseases afflicting hogs, how each are contracted and how each could be prevented
Five diseases afflicting poultry, how each are contracted and how each could be prevented

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.
Digestive system of ruminants and how it affects the nutritional management
Digestive system of horses and how it affects the nutritional management
Digestive system of horses and now it affects the nathtional management
Digestive system of pigs and how it affects the nutritional management
Digestive system of poultry and how it affects the nutritional management

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.

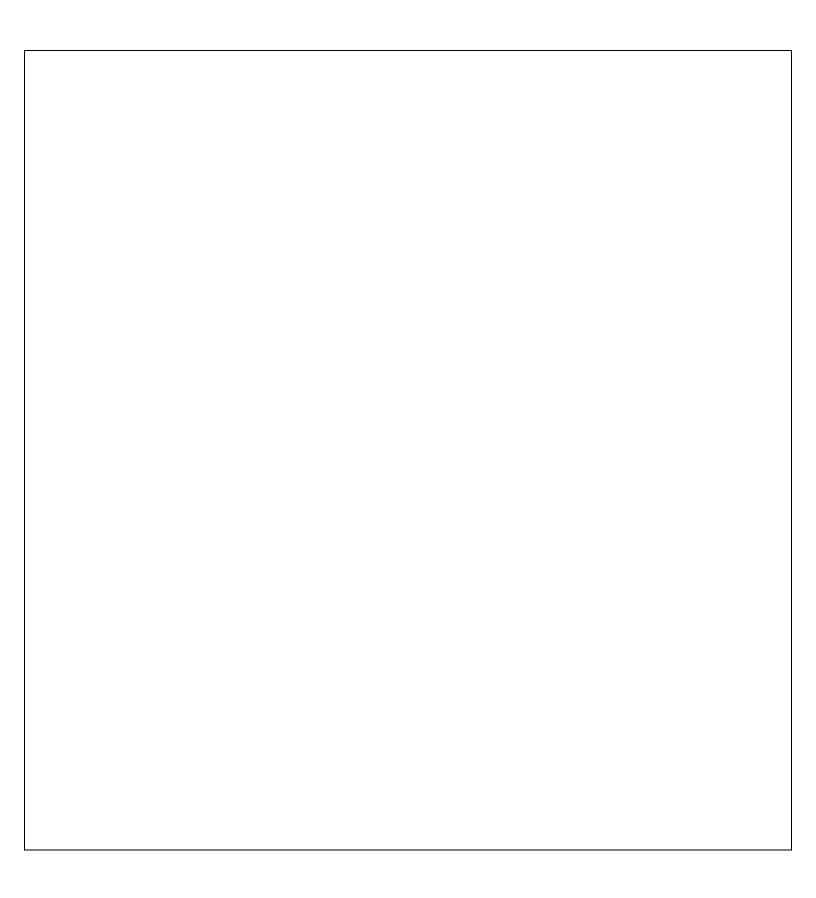
Your selected type of animal	
University and a second suppose to	
How you would properly manage it	
Nutritional concerns	
Nutritional concerns	
Housing	-
Disease prevention	

Waste control/removal	
Breeding programs	
Biosecurity	
Biosecurity	
	,

REQUIREMENT 5: Explain the importance of setting clear goals for any animal breeding program. Tell how purebred lines of animals are produced. Explain the practice of crossbreeding and the value of this practice.
Importance of setting clear goals
How purepred lines of animals are produced
The practice of crossbreeding
The practice of crossbreeding
The value of crossbreeding
REQUIREMENT 6: Complete ONE of the following options:
Beef Cattle Option

REQUIREMENT A: Visit a farm or ranch where beef cattle are produced under any of these systems:
 Feeding market cattle for harvest Cow/calf operation, producing cattle for sale to commercial feeders Producing purebred cattle for sale as breeding stock to others
Talk with the operator to learn how the cattle were handled, fed, weighed, and shipped. Describe what you saw and explain what you learned. If you cannot visit a cattle ranch or farm, view a video from a breed association, or research the internet (with your parent's permission) for information on beef cattle production. Tell about your findings.
REQUIREMENT B: Sketch a plan of a feedlot to include its forage and grain storage facilities, and loading chute for 30 or more fattening steers; or sketch a corral plan with cutting and loading chutes for handling 50 or more beef cows and their

calves at one time.



DECLUBEMENT C. Mala		Sand ordered and order	all and a file of Tall o	shows the suice Demonstration
REQUIREMENT C: Make a of Agriculture (USDA) dual (grading system of beef. Te	ell the basis of each gra	ade in each system.	about the U.S. Department
REQUIREMENT D: Define	the following terms: bull, s	steer, bullock, cow, heit	fer, freemartin, heife	rette, calf.

Bull	
Steer	
Sicci	
Bullock	
Cow	

Haifa	
Heifer	
Freemartin	
Heiferette	
Heiferette Calf	

REQUIREMENT 7: Find out about three career opportunities in animal science. Pick	one and find out	the education.
training, and experience required for this profession. Discuss this with your counselor might interest you.	, and explain why	this profession
Three career opportunities		
Education, training, and experience required for one profession		/
Education, training, and experience required for one profession		