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 (online or in-person).

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

Scout's
Name:
Dairying 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		
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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
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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.

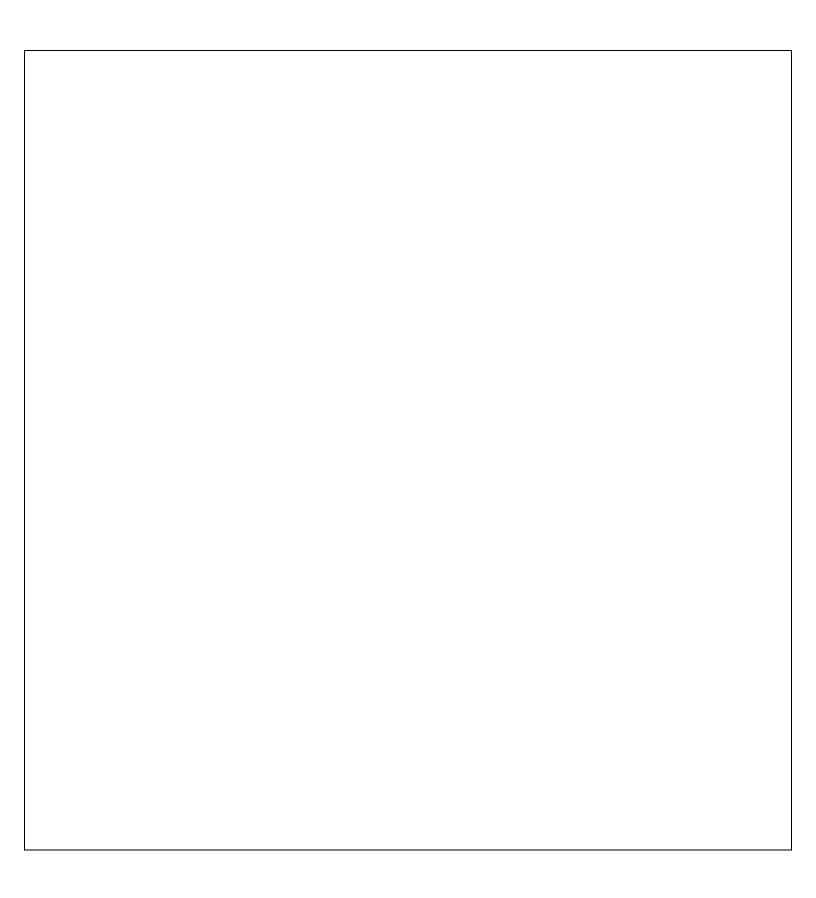
Your selected type of animal	
University and a second suppose to	
How you would properly manage it	
Nutritional concerns	
Nutritional concerns	
Housing	-
Disease prevention	

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
importance of secting crear goals
How purepred lines of animals are produced
The practice of crossbreeding
The value of crossbreeding
REQUIREMENT 6: Complete ONE of the following options:
Dairying Option

law a saw ar a goat sa	my certa forman and a	rain into mille			
How a cow or a goat co	onverts forage and gi	rain into milk			
D'					
Differences in feeds typ	olcally used for dairy	cows versus those	e red to beer cows		

component.



REQUIREMENT C: Explain the requirements for producing grade A milk. Tell how and why milk is pasteurized.
Requirements for producing grade A milk
How and why milk is pasteurized
REQUIREMENT D: Tell about the kinds of equipment used for milking and the sanitation standards that must be met or
dairy farms.
dairy farms. Kinds of equipment used for milking
Kinds of equipment used for milking
Kinds of equipment used for milking

REQUIREMENT E: Define the following terms: bull, cow, steer, heifer, springer; buck, doe, kid.

Bull	
Cow	
COW	
Steer	
Heifer	

Springer	
Buck	
2.550	
Doe	
Doe	

REQUIREMENT F: Visit a dairy farm or a milk processing plant. Describe what you saw and explain what you learned. If you cannot visit a dairy farm or processing plant, view a video from a breed or dairy association, or research the internet (with your parent's permission) for information on dairying. Tell about your findings.
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, and explain why this profession might interest you.
Three career opportunities
Education, training, and experience required for one profession