## 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:
Name:
Hog Option
This workbook covers only one of the options for this merit badge. Check the Scoutmaster Bucky website for the other possibilities.
<b>REQUIREMENT 1:</b> 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
En al made of delica and the
Four breeds of dairy cattle
Four breeds of beef cattle

Four breeds of sheep				
Four breeds of hogs				
PECHIPEMENT 2: 1	st five diseases that afflict th	e animals in each of the cl	assifications in requirement 1.	Also list five
diseases of noultry I	Describe the symptoms of ea	ch disease and explain ho	w each is contracted and how	it could be
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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 pigs and how it affects the nutritional management  Digestive system of pigs and how it affects the nutritional management	
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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.

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	

<b>REQUIREMENT 5:</b> Explain the importance of setting clear goals for any animal breeding program. Tell how purebred line of animals are produced. Explain the practice of crossbreeding and the value of this practice.
Importance of setting clear goals
importance of seeting creat goals
How purepred lines of animals are produced
The practice of crossbreeding
The value of crossbreeding
The value of crossbreeding
REQUIREMENT 6: Complete ONE of the following options:
Hog Option

<b>REQUIREMENT A:</b> Make a sketch USDA grades of pork. Tell the basis	showing the principal for each grade.	wholesale and retail	cuts of pork. <sup>-</sup>	Tell about the r	ecommended
	<u> </u>				
Recommended USDA grades of pork and b	asis for each grade				
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weaning of the litter. Discuss the feeding programs for the growth and finishing periods.
Proper feeding programs
Feeding programs for the growth and finishing periods
REQUIREMENT C: Do ONE of the following:
<b>REQUIREMENT 1:</b> Raise a feeder pig from weaning to market weight. Keep records of feed intake, weight gains, medication, vaccination, and mortality. Present your records to your counselor for review.
Completed
<b>REQUIREMENT 2:</b> Visit a farm where hogs are produced, or visit a packing plant handling hogs. Describe what you and explain what you learned. If you cannot visit a hog production unit or packing plant, view a video from a packer or processor, or research the internet (with your parent's permission) for information on hogs. Tell about your findings.
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REQUIREMENT D: Define the following terms: gilt, sow, barrow, boar.
Gilt
Sow
Barrow
Boar
Bodi

<b>REQUIREMENT 7:</b> Find out about three career opportunities in animal science. Pi training, and experience required for this profession. Discuss this with your counse might interest you.	ick one and find o lor, and explain w	out the education, hy this profession
Three career opportunities		
Education, training, and experience required for one profession		