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:
Avian 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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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
Five diseases afflicting hogs, how each are contracted and how each
Five diseases afflicting poultry, how each are contracted and how each could be prevented 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 line 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 value of crossbreeding
REQUIREMENT 6: Complete ONE of the following options:
Avian Option

REQUI ventila are use	REM tion. ed to	ENT A: Explain protect	Make how birds	a sket insulat from h	ch of ion, v	a lay ventil cold,	yer ho lation and l	ouse n, ten bad v	or br npera veath	roile atur her.	r hou e cor Expla	ise sl ntrols ain th	howi s, au ne im	ng n toma	ests, atic l ance	roos ights of li	ts, for	eede d oth or eg	rs, w ner e	ratei envir rodu	ers, onm ction	and lental	mear con	ns of trols
How en	/ironm	ental con	ntrols ar	t besit e	o prote	ect hir	rds																	
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The importance of light for egg production		
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REOUIREMENT B: Explain why overcrow	wding is dangerous for poultry flocks.	

REQUIREMENT C: 1 meat.	Tell about	the grading	of eggs.	Tell hov	v broilers	(fryers)	are graded.	Describe	the classes	of chicken
Grading of eggs										
										1.
How broilers are graded										
Classes of chicken meat										
Classes of efficient frede										
										,
REQUIREMENT D:	Do ONE of t	he following	g:							
REQUIREMENT 1: medication, vaccinat								of feed p	ourchased,	eggs sold,
Completed										
Completed										
L										
REQUIREMENT 2: Rand mortality. Preser	Raise five c	hickens from	m hatchii r counseld	ng. Keep or for rev	records (of feed i	ntake, weigh	t gains, m	edication, \	accination,
	<u> </u>		<u> </u>							
Completed										

REQUIREMENT 3: Visit a commercial avian production facility. Describe what you saw and explain what you learned. I you cannot visit a commercial facility, view a video from a poultry association, or research the internet (with your parent's permission) for information on poultry production. Tell about your findings.
REQUIREMENT E: Define the following terms: chick, pullet, hen, cockerel, cock, capon
Chick
Dullan
Pullet
Hen

Cockerel	
Cock	
	/
Capon	

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		
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