

(Please Print)
 Scout's Name _____ Phone _____ Class Time _____
 Address _____ City _____ Zip _____

Animal Science
Requirements Sheet
Merit Badge Powwow 2009

The scout is to read the **Animal Science Merit Badge pamphlet before the Powwow** (2006 edition or later). Some requirements may take up to 90 days to complete before coming to the Powwow. Read all the requirements below and bring necessary items to guarantee passing off the merit badge on the day of the Powwow. Bring to class paper, pen or pencil, and any other items asked for. Write your name, merit badge and class time (9:00 or 1:00) on **every** paper or project. (If there are any questions pertaining to requirements, the most recent Boy Scout Requirements handbook will always be used).

Recommended Requirments to complete before Powwow

- 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 at the Powwow, and explain why this profession might interest you.

Completed:

7 _____
 Signature of counselor _____ Date _____

Requirments that will be passed off at the Powwow

- 1. Name four breeds of livestock in each of the following classifications: horses, dairy cattle, beef cattle, sheep, hogs. Tell their principal uses and merits. Tell where the breeds originated.
- 2. List five diseases that afflict the animals in each of the classifications in requirement 1. Also list five diseases of poultry. Describe the symptoms of each disease and explain how each is contracted and how it could be prevented
- 3. Explain the major differences in the digestive systems of ruminants, horses, pigs, and poultry. Explain how the differences in structure and function among these four types of digestive tracts affect the nutritional management of these species.
- 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, and breeding programs if appropriate.
- 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

Completed:

1 _____
 Signature of counselor _____ Date _____

2 _____
 Signature of counselor _____ Date _____

3 _____
 Signature of counselor _____ Date _____

4 _____
 Signature of counselor _____ Date _____

5 _____
 Signature of counselor _____ Date _____



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6. Do the following option:

Dairying Option (if you wish to do one of the other options bring it to class already completed to show to the counselor).

- a. Tell how a cow or a goat converts forage and grain into milk. Explain the differences in feeds typically used for dairy cows versus those fed to beef cows.
- b. Make a chart showing the components in cow's milk or goat's milk. Chart the amount of each component.
- c. Explain the requirements for producing grade A milk. Tell how and why milk is pasteurized.
- d. Tell about the kinds of equipment used for milking and the sanitation standards that must be met on dairy farms.
- e. Define the following terms: bull, cow, steer, heifer, springer; buck, doe, kid.
- 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

6 _____
Signature of counselor _____ Date _____

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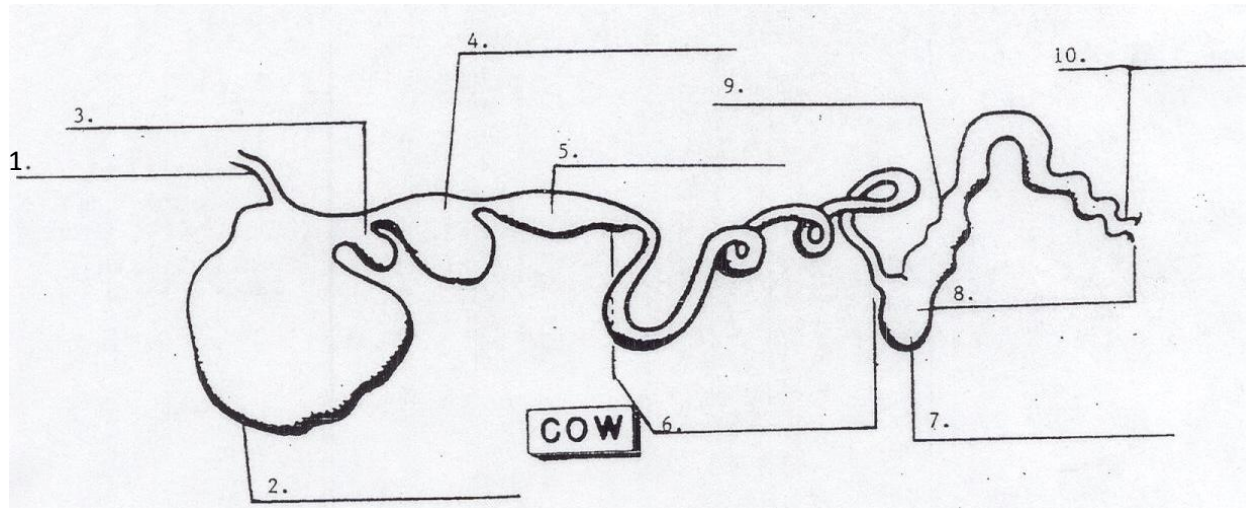
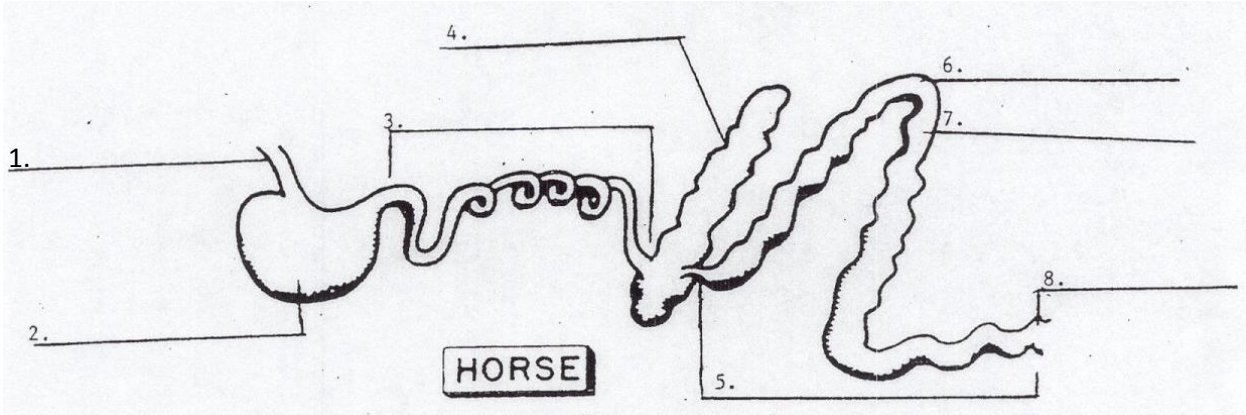


Name: _____

Requirement #3

Digestion System Worksheet

A. From the list on the bottom of the page label the parts of both digestion systems.



Abomasum
Cecum
Colon

Large Intestine
Small Intestine
Pelvic Flexure

Esophagus
Omasum
Reticulum

Rectum
Rumen
Stomach

On the back of this paper:

B. Explain the differences between the digestive system of a horse and a cow.

C. Explain the differences in feeds typically used for beef cattle and for dairy cows.

(see page 43-44 in the merit badge book)