

# PURDUE EXTENSION BOONE COUNTY

## 4-H Dairy Goat Worksheets

Grade 10-B



Name: \_\_\_\_\_

4-H Club: \_\_\_\_\_

Date: \_\_\_\_\_

### Nutrition

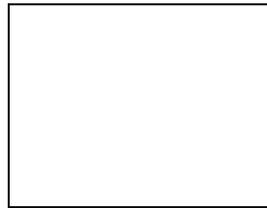
1. Explain how the rumen converts feed. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
2. A kid's resistance to disease is influenced by the quality of \_\_\_\_\_.
3. What is the most common means of providing forage for goats? \_\_\_\_\_
4. Identify the correct part of the ruminant digestive system which does the following:
  - a. Mixes/Stores, serves as a fermentation vat \_\_\_\_\_
  - b. Catches large particles of feed for further digestion \_\_\_\_\_
  - c. Produce and secrete digestive enzymes and acids \_\_\_\_\_
  - d. Squeeze and absorb water from the feed \_\_\_\_\_
5. What is a result of Vitamin C deficiency? \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_,
6. This Vitamin may be need to supplemented to animals that are stressed or sick. \_\_\_\_\_
7. How does a Vitamin D deficiency affect the bones/joints of an animal? \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_
8. Select 2 minerals necessary in a diet of a goat and indicate the function of the mineral and ways to provide the mineral into the diet.
  - a. Mineral \_\_\_\_\_  
Function \_\_\_\_\_  
Ways to Provide in Diet \_\_\_\_\_
  - b. Mineral \_\_\_\_\_  
Function \_\_\_\_\_  
Ways to Provide in Diet \_\_\_\_\_

9. What are Ionophores? Explain their role in the goat's feed ration. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

10. What does a buck need during the breeding season for proper nutrition?  
\_\_\_\_\_

11. You have 10lbs of hay at 90% Dry Matter (DM) that you are feeding your doe each day. Calculate how many lbs of DM this doe is eating per day.

12. You have a wether that you want to feed at 1% protein. You are mixing a 34% protein pellet with 8.9% cracked corn. You want 300 pounds of feed when you are done. Using the Pearson Square, how much of each will you need to mix to get the desire protein content?



13. Identify the Following Feed Ingredients:



A. \_\_\_\_\_



B. \_\_\_\_\_



C. \_\_\_\_\_



D. \_\_\_\_\_



E. \_\_\_\_\_



F. \_\_\_\_\_