

PURDUE EXTENSION BOONE COUNTY

4-H Goat Worksheets

Grade 10-A



Name: _____

4-H Club: _____

Date: _____

Nutrition

1. Because goats are ruminant animals, they can digest _____.
2. How many stomach compartments does a goat have? _____
3. The rumen is the first and the _____ compartment of the goat's digestive system.
The rumen acts as a large _____ vat which _____ and stirs up the food.
The rumen can hold about 6 _____ of material.
4. Explain how the rumen converts feed. _____

5. Match the following:

_____ Rumen	A. Produce and secret digestive enzymes and acids
_____ Reticulum	B. Regurgitation of food for rechewing
_____ Omasum	C. Catches large particles of feed for further digestion
_____ Abomasum	D. Squeeze and absorb water from the feed
_____ Rumination	E. Mixes/stores, serves as fermentation vat
6. What is the most important nutrient needed to survive? _____ and how much of a goat's body is composed of this nutrient? _____ - _____ %
7. Explain the importance of protein in a goat's diet. _____ , _____
_____, _____ and _____
8. A 100 pound goat that is not producing milk consumes about _____ of water per day.
9. A kid's resistance to disease is influenced by the quality of _____.
10. What is the ideal time to wean a kid from its mother? _____
11. What is the most common means of providing forage for goats? _____

12. Match the mineral with its function and deficiency sign.

Mineral Functions and Deficiency Signs

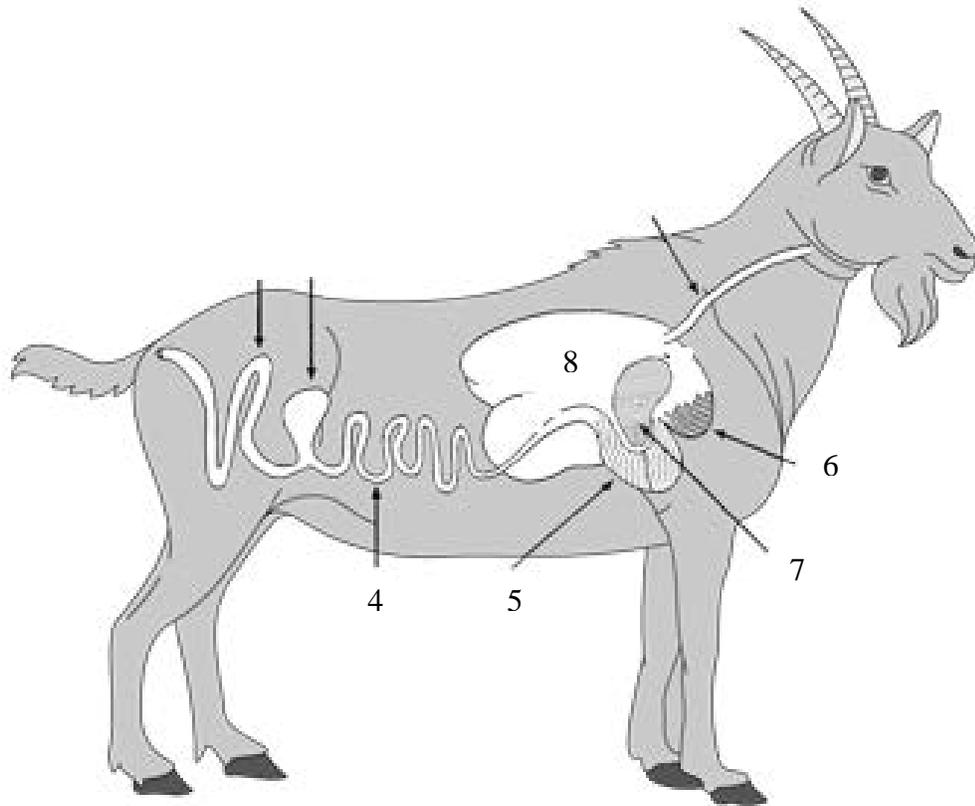
- A. Co-factor for major enzymatic reaction
- B. Rickets in growing animals
- C. Decreased intake, weight loss, reduced milk yield
- D. Reduced animal performance and reduced fiber digestion
- E. Helps to transport material across cell walls
- F. Muscular activity; osmotic pressure of body fluid
- G. Muscle contraction, proper skeletal structure, and milk production
- H. Eating anything containing salt, lack of appetite
- I. Required by rumen microbes for fiber digestion
- J. Grass tetany or staggers

Function

Deficiency Sign

_____	Calcium	_____
_____	Magnesium	_____
_____	Potassium	_____
_____	Salt	_____
_____	Sulfur	_____

13. Identify each part of the ruminant digestive system.



- 1. _____
- 2. _____
- 3. _____
- 4. _____

- 5. _____
- 6. _____
- 7. _____
- 8. _____

Answers to these questions can be found in the "Goat Resource Handbook" 4-H 135R