

# PURDUE EXTENSION BOONE COUNTY

## 4-H Meat Goat Worksheets

Grade 11-A



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

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

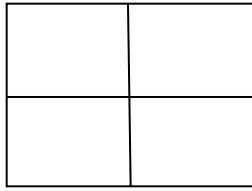
Grade: \_\_\_\_\_

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

### Reproductive Management and Genetics

1. A successful reproductive program in a goat herd requires managers to properly detect estrus. Identify some of the obvious signs of estrus: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
2. Explain Estrous Synchronization and give some benefits of using this method in your goat herd. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
3. Match the following: (Notice that Lutalyse and Prostaglandin will have 2 responses each)  
\_\_\_\_ PMSG                      A. Destroys the corpus luteum  
\_\_\_\_ Lutalyse                    B. Prevents ovulation until removal  
\_\_\_\_ SynchroMate-B            C. Destroys the corpus luteum  
\_\_\_\_ Prostaglandin              D. Stimulate ovulation
4. What is the key reproductive hormone that is used to stimulate the growth of multiple follicles on the eggs? \_\_\_\_\_
5. The birth of an animal where the rear legs are coming first instead of head or front feet first is known as a \_\_\_\_\_ birth. Is assistance needed with this type of birth? \_\_\_\_\_
6. Where does an animal get its genes from?  
\_\_\_\_\_% from parents    \_\_\_\_\_% from grandparents    \_\_\_\_\_% great grandparents
7. Explain what ETA is. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
8. The estrous cycles of goats are stimulated to begin when the days are becoming \_\_\_\_\_ in the late \_\_\_\_\_ and fall.

9. Find the genotype and phenotype of the following: Doe → Rr      Buck → Rr

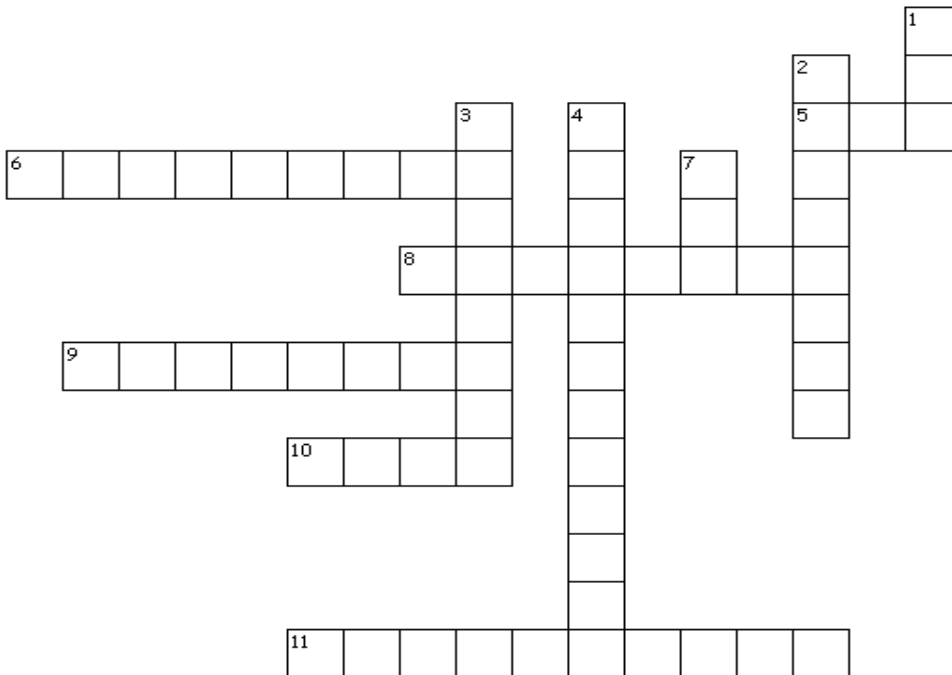


Genotype:

Phenotype:

10. Does that are healthy and well managed nutritionally can be bred when? \_\_\_\_\_

11. Complete the Following:



**Across**

- 5. Predicts the genetic potential of an offspring
- 6. A gene that is not dominate for a characteristic
- 8. One gene of the gene pair that determines a characteristic
- 9. The passing of genetic material from parents to offspring
- 10. Consists of a specific sequence of DNA
- 11. Two genes are the same

**Down**

- 1. Genetic material that controls a trait
- 2. Inherited characteristics and how they vary
- 3. Gene pair
- 4. Statistic used to describe the amount of variation within a population
- 7. Measure of type evaluations for selecting the best animal for breeding
- 11. Genes are different

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