

# PURDUE EXTENSION BOONE COUNTY

## 4-H Dairy Goat Worksheets

Grade 12-B



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

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

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. Match the following:

- |                    |                                                       |
|--------------------|-------------------------------------------------------|
| _____ Embryo       | A. Duct that carries the sperm from the epididymis    |
| _____ Estrus       | B. Act of giving birth to young                       |
| _____ Fetus        | C. A newly fertilized egg                             |
| _____ Cervix       | D. Muscle that closes off the uterus                  |
| _____ Parturition  | E. Duct through which the sperm and urine travel      |
| _____ Epididymis   | F. The unborn lamb from embryo to birth               |
| _____ Urethra      | G. Duct that collects and stores sperm                |
| _____ Vas Deferens | H. Period that the female will allow the male to mate |

3. 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? \_\_\_\_\_
4. Where does an animal get its genes from?  
\_\_\_\_\_ % from parents    \_\_\_\_\_ % from grandparents    \_\_\_\_\_ % great grandparents
5. Find the genotype and phenotype of the following: Doe  $\rightarrow$  Rr    Buck  $\rightarrow$  rr


Genotype:

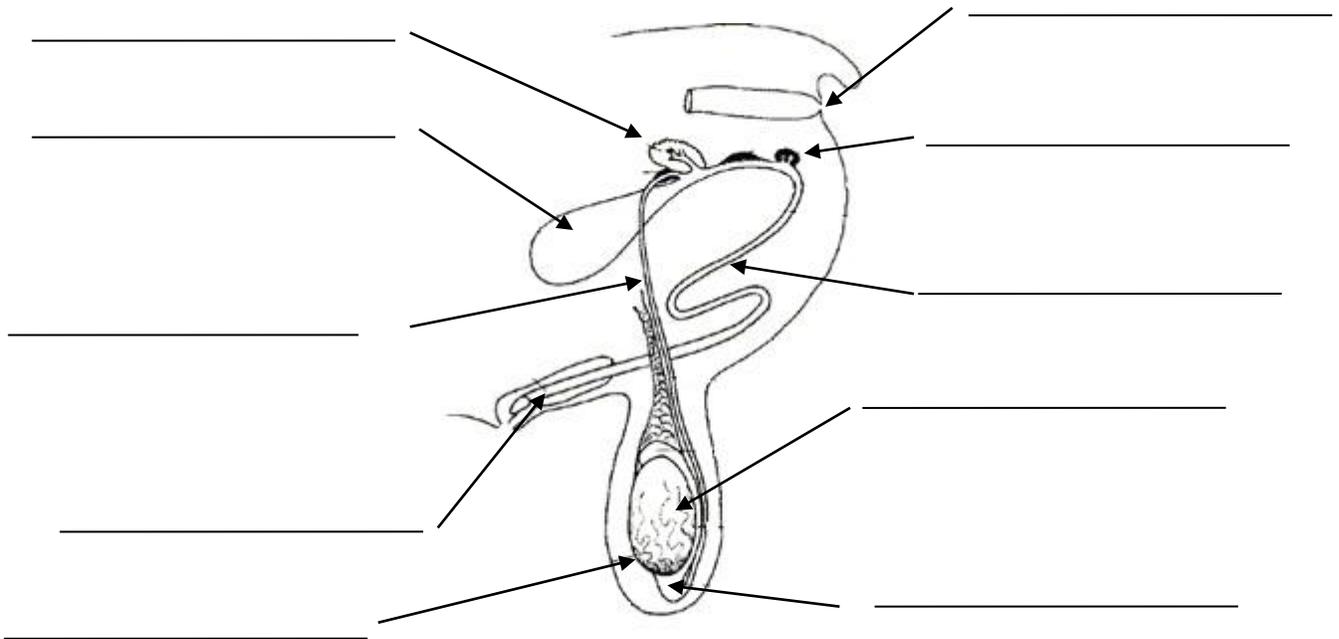
Phenotype:

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

11. Identify the correct Reproductive Term:

- a. Egg produced by the ovary \_\_\_\_\_
- b. Growth period when reproductive system reaches maturity \_\_\_\_\_
- c. Release of a mature egg from the follicle \_\_\_\_\_
- d. Discharge of semen \_\_\_\_\_
- e. Period of time from the end of one heat cycle to the next \_\_\_\_\_
- f. Specific chemical messengers secreted by the glands \_\_\_\_\_
- g. The length of the period between fertilization and lambing \_\_\_\_\_
- h. An external pouch of skin that covers the testicles \_\_\_\_\_

12. Identify the Following:



13. Use logic to determine the appropriate time to breed a doelings. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

14. Where does an animal get its genes from?  
\_\_\_\_\_ % from parents    \_\_\_\_\_ % from grandparents    \_\_\_\_\_ % great grandparents

15. This is a paper showing the goats "family tree", birth information, and owner. \_\_\_\_\_

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