



4-H Goat Project

Name: _____ 4-H Club _____

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 |
| _____ Gonad | 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. The external part of the reproductive system |
| _____ Vas Deferens | H. Germ cell producing tissue |
| _____ Cervix | I. Period that the female will allow the male to mate |
| _____ Vulva | J. Duct that collects and stores sperm |

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 → Rr Buck → rr

| | |
|--|--|
| | |
| | |

Genotype:

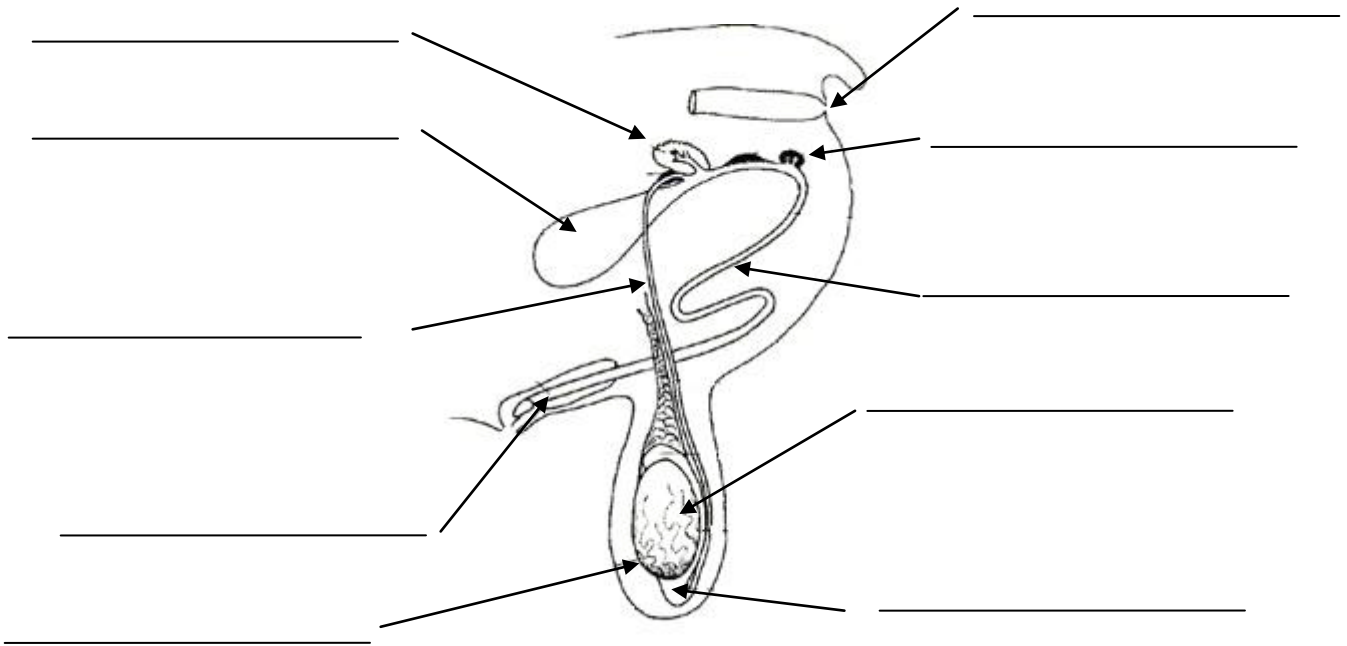
Phenotype:

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