

# PURDUE EXTENSION BOONE COUNTY

## 4-H Meat Goat Worksheets

Grade 11-C



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

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

### Genetics and Medical Uses

1. Explain Estrous Synchronization and give some benefits of using this method in your goat herd.

---

---

---

2. The estrous cycles of goats are stimulated to begin when the days are becoming \_\_\_\_\_ in the late \_\_\_\_\_ and fall.

3. What is the key reproductive hormone that is used to stimulate the growth of multiple follicles on the egg?

---

4. Explain what ETA is.

---

---

5. Where does an animal get its genes from?

\_\_\_\_\_ % from parents  
\_\_\_\_\_ % from grandparents  
\_\_\_\_\_ % from great grandparents

6. Find the genotype and phenotype of the following where the Doe is **Rr** and the Buck is **Rr**.


Genotype:

Phenotype:

7. What does “withdrawal time” refer to?

---

---

8. Label the parts of a Medication Label:

### Medication Label

**OMNIBIOTIC**

(Hydrocillin)

**Directions for use: See package insert.**

**Warning:** The use of this drug must be discontinued for 30 days before treated animals are slaughtered for food. Exceeding the highest recommended dosage level may result in antibiotic residues in meat or milk beyond the withdrawal time.

**Store between 2° and 8°C (36° and 46°F)**   
**Keep dry and away from light.**

Net Contents: 100 mL  
Distributed by   
**USA Animal Health, Inc.**

EQ771-3 2/11/20XX

This activity was adapted from information found in the **Quality Assurance and Animal Care Youth Education Program**. Based upon work supported by the Extension Service, United States Department of Agriculture, under special project number 93-EFSQ-4096.