

White County 4-H
Sheep Educational Activities – Grade 10

Project Year _____

4-H'er Name _____ Club _____

Activity #1

Please answer the following questions related to Chapter 11, "Reproduction and Genetics" from the Ohio State Sheep Resource Handbook

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| _____ | 1. Chromosomes | a. Traits that are controlled by multiple gene parts |
| _____ | 2. Gene | b. The expression of genetic traits |
| _____ | 3. Genotype | c. Carriers of the basic units of heredity |
| _____ | 4. Heritability | d. The genetic make-up of the animal |
| _____ | 5. Heterosis | e. An animal characteristic that can be selected for |
| _____ | 6. Heterozygous | f. The ability of an animal to make its offspring resemble it and each other more closely than usual |
| _____ | 7. Homozygous | g. The amount of variation in a trait resulting from genetic differences. |
| _____ | 8. Phenotype | h. Traits that are controlled by only one gene pair |
| _____ | 9. Prepotency | i. A gene pair with different genes for the same trait |
| _____ | 10. Qualitative Traits | j. The increase in performance associated with the crossbred animal when compared to the average of the purebred parents |
| _____ | 11. Quantitative Traits | k. Basic unit of heredity that is located on chromosomes and affects a specific trait |
| _____ | 12. Trait | l. A gene pair where both genes are identical |

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Activity #2

Please answer the following questions related to Chapter 13, "Caring for Animals" from the Ohio State Sheep Resource Handbook

Place a P, R or W in the left column telling which the right column is

P = Privileges

R= Responsibility

W= Reward

- | | |
|-------|---|
| _____ | 1. To feel good about producing a wholesome, consumable product. |
| _____ | 2. To ask questions and share concerns |
| _____ | 3. To know as much about your project as possible |
| _____ | 4. To receive both public and personal recognition |
| _____ | 5. To be loyal to the values and ideals of the 4-H program |
| _____ | 6. To be given a variety of experiences relating to project work |
| _____ | 7. To be willing to learn and participate in training programs and meetings |
| _____ | 8. To know you are special and you can make a difference |
| _____ | 9. To treat all livestock projects in your possession humanely |
| _____ | 10. To receive information to raise the project. |

