

White County 4-H  
Sheep Educational Activities – Grade 12

Project Year \_\_\_\_\_

4-H'er Name \_\_\_\_\_ Club \_\_\_\_\_

Activity #1

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

Terms

A crossword puzzle grid with 15 numbered starting points for terms. The grid consists of white squares for letters and black squares for empty space. The numbered squares are:

- 1: 10 squares, horizontal, top row.
- 2: 10 squares, horizontal, top row, starting at the 5th square of 1.
- 3: 10 squares, horizontal, second row, starting at the 2nd square.
- 4: 10 squares, vertical, starting at the 5th square of 1.
- 5: 10 squares, vertical, starting at the 7th square of 1.
- 6: 10 squares, vertical, starting at the 9th square of 1.
- 7: 10 squares, vertical, starting at the 8th square of 1.
- 8: 10 squares, horizontal, starting at the 5th square of 1.
- 9: 15 squares, horizontal, starting at the 2nd square.
- 10: 15 squares, horizontal, starting at the 3rd square.
- 11: 15 squares, horizontal, starting at the 4th square.
- 12: 10 squares, horizontal, starting at the 7th square of 1.
- 13: 15 squares, horizontal, starting at the 2nd square.
- 14: 10 squares, horizontal, starting at the 7th square of 1.
- 15: 15 squares, horizontal, starting at the 7th square of 1.

## Across

1. The continuous use of unrelated rams and allows you to get the maximum amount of heterozygosity in a flock.
3. Is the repeated use of rams of a single breed on a set of ewes and their daughters.
8. Is a special kind of inbreeding, which concentrates on continued matings of descendents of a certain animal.
9. Is the development of a new breed of sheep from crossbreeding existing breeds.
10. Are fat thickness or loin eye area and are moderately to highly heritable.
11. The breeding value of the ancestor is considered when selecting replacements.
12. This is a moderately heritable trait that can be selected for with good response.
13. A minimum standard is set for each trait and all individuals below the standard for any trait are culled.
14. Is the mating of a ram and ewe that have one or more common ancestor(s).
15. This focuses on one trait at a time, gets it to the desired level and then considers the next trait.

## Down

2. These are traits, such as lambs weaned per ewe and out of season breeding, which are lowly heritable.
4. Replacements are chosen on the average performance of the whole family
5. Refers to the structural make up of the animal and is moderately to highly heritable.
6. This is a form of pedigree selection and the breeding value is estimated by the performance of the offspring.
7. Involves crossing rams and ewes of certain breeds or crosses to get a specific type of offspring.

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**Activity #2**

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

- |       |                    |   |
|-------|--------------------|---|
| _____ | 1. Trustworthiness | a. Do unto others as you would have them do to you.                     |
| _____ | 2. Respect         | b. Being honest, standing up for what is right.                         |
| _____ | 3. Responsibility  | c. Do your best, be a good example.                                     |
| _____ | 4. Fairness        | d. Being committed to the welfare of your community, state or, country. |
| _____ | 5. Caring          | e. Use the same rules or standards for everyone                         |
| _____ | 6. Citizenship     | f. Judge people on their merits or good things they do                  |
- 
7. The desire to win at any cost has tarnished the record of 4-H members personally and livestock shows in general.  
True False
8. The effects of unethical practices on animals can be harmful or even fatal.  
True False
9. Much of the public's contact with 4-H is at the county fairs where show ring events draw large crowds. What the audience sees doesn't reflect on the total 4-H program or the entire livestock industry.  
True False
10. Many 4-H alumni who showed animals during their 4-H years attribute successes in their careers to the diverse skills gained a 4-H member.  
True False

