



# 4-H Feeder Calf Project

Union County  
Record Sheet  
10-2 Grade 10

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

## CATTLE STRUCTURAL DIFFERENCES

Fill in the term used to describe the following structural conditions.

### Word Bank

knock kneed or splayfooted

cow hocked

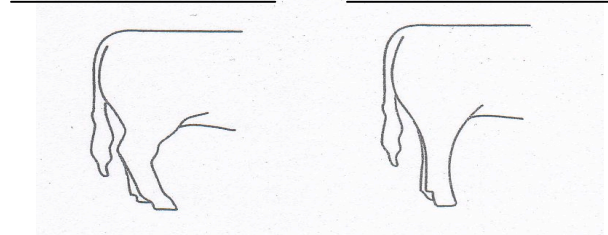
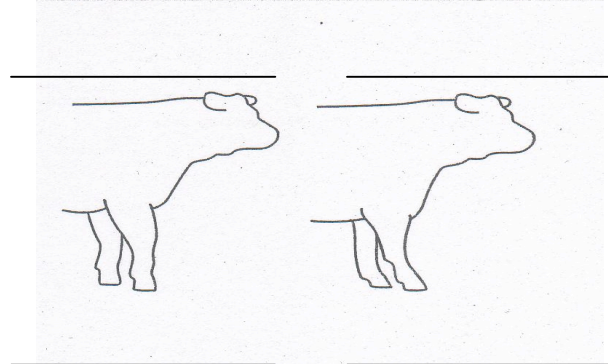
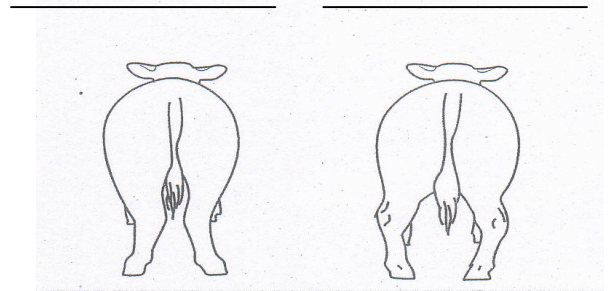
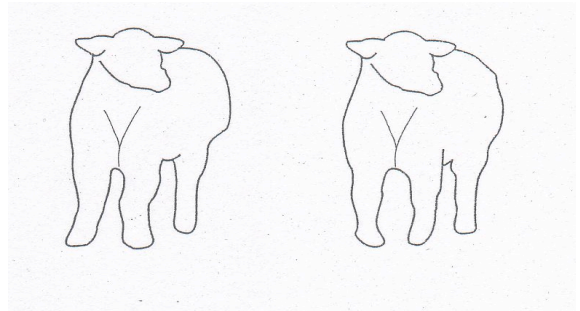
sickle hocked

postlegged

pigeon toed or bowlegged

buck kneed

calf kneed



1. When evaluating breeding cattle, several important characteristics must be examined. These characteristics include:

- A. \_\_\_\_\_
- B. \_\_\_\_\_
- C. \_\_\_\_\_
- D. \_\_\_\_\_
- E. \_\_\_\_\_

2. Frame scores are a way of estimating what size cattle will be when they are fully grown. It is based on the height of an animal at the hips, at different ages. Find these Frame Scores:

3. Heifer, Age 12 Months, 47.0" Hip Height =	<u>Frame Score</u>
Bull, Age 20 Months, 56.9" Hip Height =	_____
Heifer, Age 17 Months, 51.1" Hip Height =	_____
	_____

4. A heifer will come into heat (estrus) sometime after \_\_\_\_\_ months of age depending on her breed and weight.

5. The estrus cycle repeats every \_\_\_\_\_ to \_\_\_\_\_ days until she is bred if nutritional requirements are met and diseases are not present.

6. Depending on the breed, a cow will calve approximately \_\_\_\_\_ days after conception, the time when the sperm fertilizes the egg. This 283 day period is called \_\_\_\_\_.



7. List four of the seven signs of heat.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

8. The general procedure for Artificial Insemination breeding is to follow the \_\_\_\_\_ rule. If the cow shows signs of standing heat at night, breed her in the morning. If she shows signs of heat in the morning, breed her at night.

9. After a heifer or cow calves, she needs approximately \_\_\_\_\_% more energy, 50% more \_\_\_\_\_, 50% more calcium and \_\_\_\_\_% more phosphorus in her diet. In addition Vitamin A requirement increases about \_\_\_\_\_%.

Horses, cats, and dogs are not required to complete numbers 2 and 3.

### Animals Owned

Animals Name	Breed	Sex	Date of Birth	Date Obtained

**1. Expenses for the Animal(s)**

Animal(s) *if purchased*                    \$ \_\_\_\_\_  
 Feed    \$ \_\_\_\_\_  
 Bedding    \$ \_\_\_\_\_  
 Vet     \$ \_\_\_\_\_

Total Expenses            \$ \_\_\_\_\_

**2. Income from Animal(s) *market animals sold***                    \$ \_\_\_\_\_

Estimated value of animal to be sold in 4-H Auction \$ \_\_\_\_\_

Total Income                \$ \_\_\_\_\_

**3. Value of breeding animals**

Value of your cat or dog

Asset Value                 \$ \_\_\_\_\_

\$ \_\_\_\_\_

Net Profit / Loss         \$ \_\_\_\_\_

Member Signature: \_\_\_\_\_

Parent Signature: \_\_\_\_\_

Leader Signature: \_\_\_\_\_