Selective Breeding in Agriculture

Station 1: Milk Production

- Why is high milk production a desirable trait?

- Which Holstein cows should be selected for breeding purposes?

- How does selective breeding benefit dairy farmers?

- How does selective breeding for milk production affect us as consumers?

Station 2: Butterfat Content

- Why is high butterfat content a desirable trait?

- Which Jersey cows should be selected for breeding purposes?

- How does selective breeding benefit dairy farmers?

- How does selective breeding for high butterfat content affect us as consumers?

Station 3: Birthweight and Weaning Weight

- Why is the birthweight of calves a desirable trait?

- Why is the weaning weight of calves a desirable trait?

- Which bull would you select for breeding purposes? Why?

- How do beef producers benefit from selective breeding?

Station 4: Horned and Polled Cattle

- Why is the polled gene a desirable trait in cattle?

- Between the horned gene and polled gene, which trait is dominant and which trait is recessive?

- Do a quick web search to define the following:
  - Dominant gene:

  - Recessive gene:

- Which cows should be selected to ensure **no** offspring are born horns?