



Lessons presented by  
**Oklahoma State University**  
 Ferguson Family Dairy Visitor Center  
 With Southwest-Southland Dairy Farmers

<b>Instructor</b>	Jaycie Heath
<b>Grade Level</b>	3-5
<b>Lesson Title</b>	Dairy Breeds (Scheduled in Person)

### TEACHER PREPARATION

Learning Goals & Standards/Performance Indicators	
Learning Goals	Standards
1. Upon completion of this lesson students will be able to identify the five major dairy breeds and begin to understand their benefits to dairies.	1. <u>3. LS1.1</u> Develop and use models to describe that organisms have unique and diverse life cycles but all have a common pattern of birth, growth, reproduction, and death. 2. <u>WG.5</u> The student will analyze agricultural and commercial land use
Resources and Materials	
<input type="checkbox"/> <a href="#">National Agriculture in the Classroom</a> <input type="checkbox"/> <a href="#">Oklahoma State- Breeds of Cattle</a> <input type="checkbox"/> <a href="#">Brown Swiss Association</a> <input type="checkbox"/> Images of Holstein, Brown Swiss, Ayrshire, Guernsey, and Jersey cows <input type="checkbox"/> Visuals in the center <input type="checkbox"/> Student tour guides	
Announcement and Other Preliminaries	
1. Welcome students to the Ferguson Family Dairy, introduce self and what you do for the dairy, etc.	

### LESSON DELIVERY

#### Anticipatory Set

- Show that we have two of the breeds here (through the viewing window into freestall barn)
- Show students images of various dairy breeds.
  - What do you notice about all these pictures?
    - What are some similarities/differences?
- Today we will learn about the five main dairy breeds here in the United States.

#### Direct Instruction

<b>1<sup>st</sup> Learning Goal:</b> Upon completion of this lesson students will be able to identify the five major dairy breeds and begin to understand their benefits to dairies.	
<b>Content Outline</b>	<b>Instructional Strategies</b>

**1<sup>st</sup> Learning Goal:** Upon completion of this lesson students will be able to identify the five major dairy breeds and begin to understand their benefits to dairies.

Breed Information (from National Ag in the Classroom and Oklahoma State- Breeds of Cattle)

- Holstein-
  - All white with black spots, what people traditionally think of when you say “dairy cow”
  - Holsteins may also come in white with red spots
  - Largest breed, with cows weighing an average of 1500 lbs
  - Most common breed in the US
  - Makes the most milk of all the breeds (up to 10 gallons per day)
  - One of the breeds we have here
- Jersey-
  - Medium to dark brown with a dark nose and tail
  - Small size, weighing between 800 and 1200 lbs
  - High milk production
  - Second most common breed in the US
  - One of the breeds we have here
  - *Through the viewing window point out the size difference in the Holsteins and the Jerseys*
- Brown Swiss-
  - Can be grey, dark brown, tan or even almost white in color. Their hooves, nose and tail are usually black. (Brown Swiss Association)
  - Often described as athletic and cows weigh around 1500 lbs
  - Their milk is good for making cheeses because its high in lactose.
  - They do well in both hot and cold places.
- Ayrshire-
  - Red and white spotted, the red may be very dark or very light.
  - Cows weigh around 1200 lbs
  - Their milk is good for butter and cheeses.
  - They do very well in cold weather

- Students will need to be able to see images of each breed as they are discussed, this could be a good opportunity to utilize prerecorded footage of breeds other than Holstein and Jersey since they will be able to see those live through the viewing window.

**1<sup>st</sup> Learning Goal:** Upon completion of this lesson students will be able to identify the five major dairy breeds and begin to understand their benefits to dairies.

- They have strong, healthy udders.
- Guernsey-
  - Gold (yellowy-red) and white color
  - Cows weigh around 1100 lbs
  - Their milk is high in butter fat and high protein, leading it to be called Golden Milk.
  - They do well in warm places and live long lives

**Learning Activity**

- Students should be provided with a coloring sheet with five blank outlines of dairy cattle with names below each outline so that they can color in the appropriate outline to match each breed image as the lesson progresses.

**Assessment**

- Show students images of a few dairy breeds and ask them what each breed is named.

**Closure**

**Closing Announcements/Reminders**

- Answer any questions they may have
- Show them the robot and viewing windows one more time
- Thank students for coming to the Ferguson Family Dairy