



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>	K-2
<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 main dairy breeds.	1. <u>1. LS3.1</u> Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents. 2. <u>2. LS4.1</u> Make observations of plants and animals to compare the diversity of life in different habitats.
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 main dairy breeds.	
<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 main dairy breeds.

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”
  - Largest breed
  - 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
  - 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
  - Their milk is good for making cheeses.
  - They do well in both hot and cold places.
- Ayrshire-
  - Red and white spotted, the red may be very dark or very light.
  - Their milk is good for butter and cheeses.
  - They do very well in cold weather
  - They have strong, healthy udders.
- Guernsey-
  - Gold (yellowy-red) and white color
  - 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

- 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 main dairy breeds.

long lives

**Learning Activity**

- Students should be provided with a coloring sheet with five blank outlines of dairy cattle that they can color in 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