

Lesson 2: Milk Quality & Safety: Keeping Milk Fresh

Lesson Introduction

How does milk get from moo to you? In this lesson, students will learn how the milk you drink gets from the cow on a dairy farm to you at home and school. The lesson will also highlight the career of being a milk truck driver.

Lesson Objectives

- Students will list the steps of milk from the cow to them.
- Students will identify dairy foods.
- Students will list the skills and responsibilities of being a milk truck driver.

Time: 45 – 60 minutes

Standards: See the [Discover Dairy website](#) for complete listing by grade level.

Vocabulary

- Barn, dairy cow, dairy foods, milk plant, milk tank, and milk truck driver

Materials Needed

- Computer
- Lesson Presentation: [PowerPoint](#), [PDF](#), [Canva](#)
- Multimedia Projector and Screen
- Activity Sheets
- Writing Prompts
- Internet Access
- [The Journey of Milk](#) Video
- [Milk Truck Drivers from Valley Grove Dairy](#) Video
- [Milk Truck Driver Career Spotlight](#)
- Pencils

Activities

- [Journey of Milk Maze](#)
- [From Moo to You Sequencing Activity](#)
- [From Moo to You Storyboard Activities](#)
- [PreK and K Writing Prompt](#)
- [Grades 1 and 2 Writing Prompt](#)
- [Kahoot Game](#)

Procedure

Introduction (5 minutes)

- Introduction
- **Activating Strategy:** Let's look at how milk gets from Moo to You by watching the video, [The Journey of Milk](#). Use Lesson 2 PowerPoint slides 1-3.

Words on the Milk Journey (5 minutes)

- Go over the essential vocabulary terms and their meanings for this lesson.
- Use the Lesson 2 PowerPoint, slides 4-10 to show the meaning in pictures.

From Moo to You: The Journey of Milk (10 minutes)

- Introduction, slide 11
- Go over the six important parts to the milk journey using PowerPoint slides 12-17.
- Closure: We learned more about the six steps for milk's journey from the cow to you. Share with us one step you remember from our exploration, slide 18.

Career Spotlight: Milk Truck Driver (6 minutes)

- Introduction, slide 19
- Facilitate the Career Spotlight on Milk Truck Driver using the [Milk Truck Drivers from Valley Grove Dairy](#) video and discussion of responsibilities of milk truck drivers. Share the [Milk Truck Driver Career Spotlight worksheet](#) with the students. Use slides 20-22 to guide the conversation.
- Closure: A milk truck driver plays an important part in milk's journey from moo to you. Use slide 23.
 - Tell us one responsibility of a milk truck driver.
 - Are you interested in being a milk truck driver when you grow up?

Summative Activity (15-30 minutes, depending on the activities)

- Introduction
- Pass out any of the activities: [Journey of Milk Maze](#), [From Moo to You Sequencing Activity](#), [From Moo to You Storyboard Activity](#), and/or grade specific writing prompts.
- Allow students class time to complete the selected activities.
- Walk around, offering help and answering questions as needed.
- **Lesson Closure:** Today you learned about the journey of milk from moo to you. The last step in the process is you. Tell us one thing you need to do to keep milk safe.

Career Spotlight

Milk Truck Driver

Summative Assessment

Students will complete at least one of the activities with a mastery level of 80% or higher.



Lesson 2 Milk Quality & Safety

Essential Vocabulary & Definitions

Barn: the place where cows live

Dairy Cow: a female that has had a calf at least one time

Dairy Foods: foods made from milk

Milk Plant: a place that takes milk, makes milk safe, and makes other foods from milk

Milk Tank: a special container that holds cold milk for the farmer, also known as a bulk tank

Milk Truck Driver: a person who takes milk from the farm to the milk plant



Lesson 2: Milk Quality & Safety

Career Spotlight: Milk Truck Driver

Description

The milk truck driver is an essential member of the dairy farmer's team. They ensure the milk is safely transported from the farm to the processing plant.

Farmers and consumers depend on a milk truck driver. They play a key roll in getting the farm fresh milk to your refrigerator in less than 72 hours.

Common Responsibilities

- Test the milk to make sure it is safe
- Pump the milk from the bulk tank to the milk truck
- Drive the milk from the farm to the milk processing plant safely



Education/Training Requirements

High School Diploma with driving experience and a CDL license.

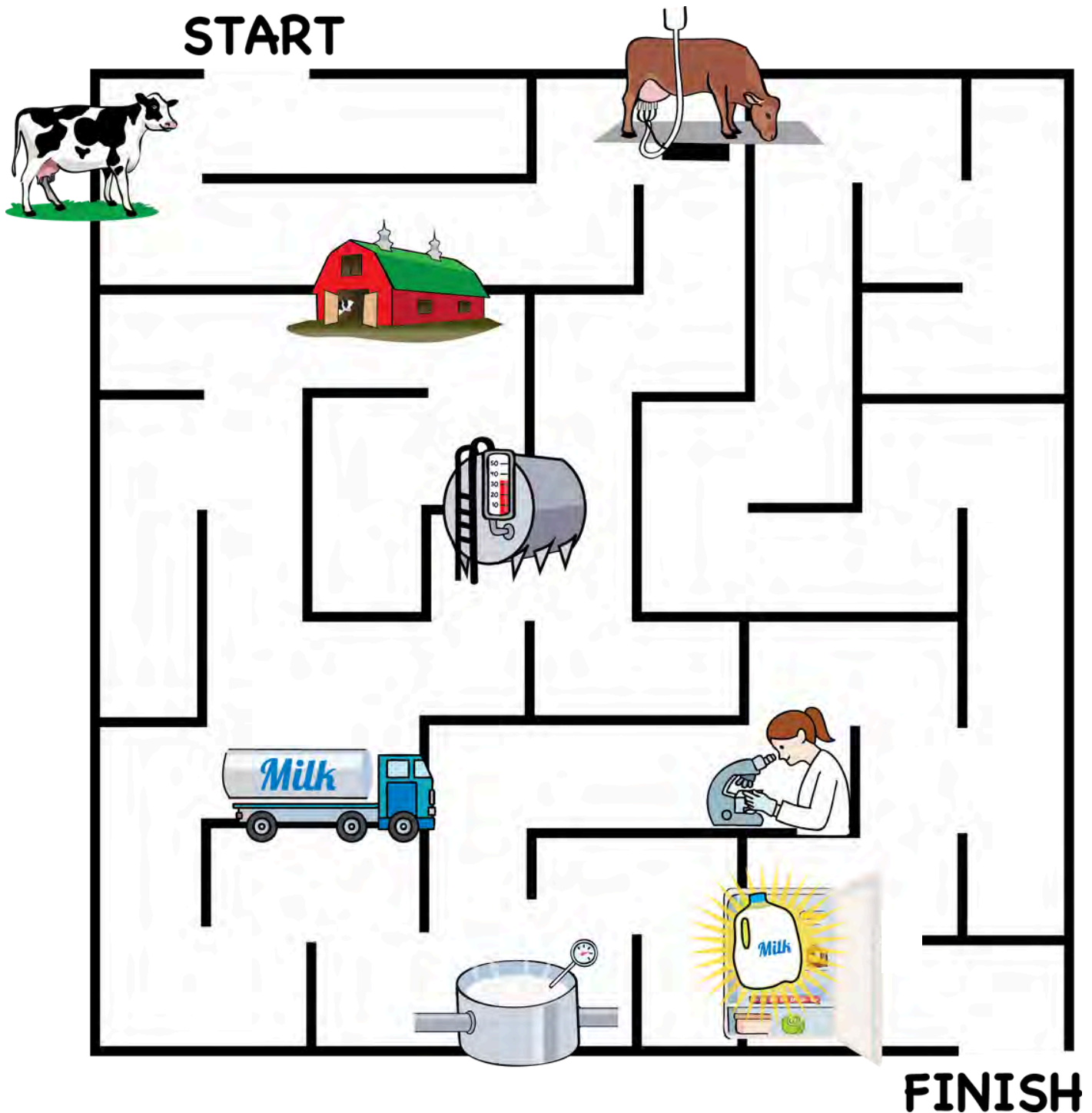
Name: _____

Date: _____

Discover Dairy and Milk Quality & Safety

Journey of Milk Maze

Directions: Trace the trail of milk from the cow to our table by following each of the six steps in milk quality and safety.



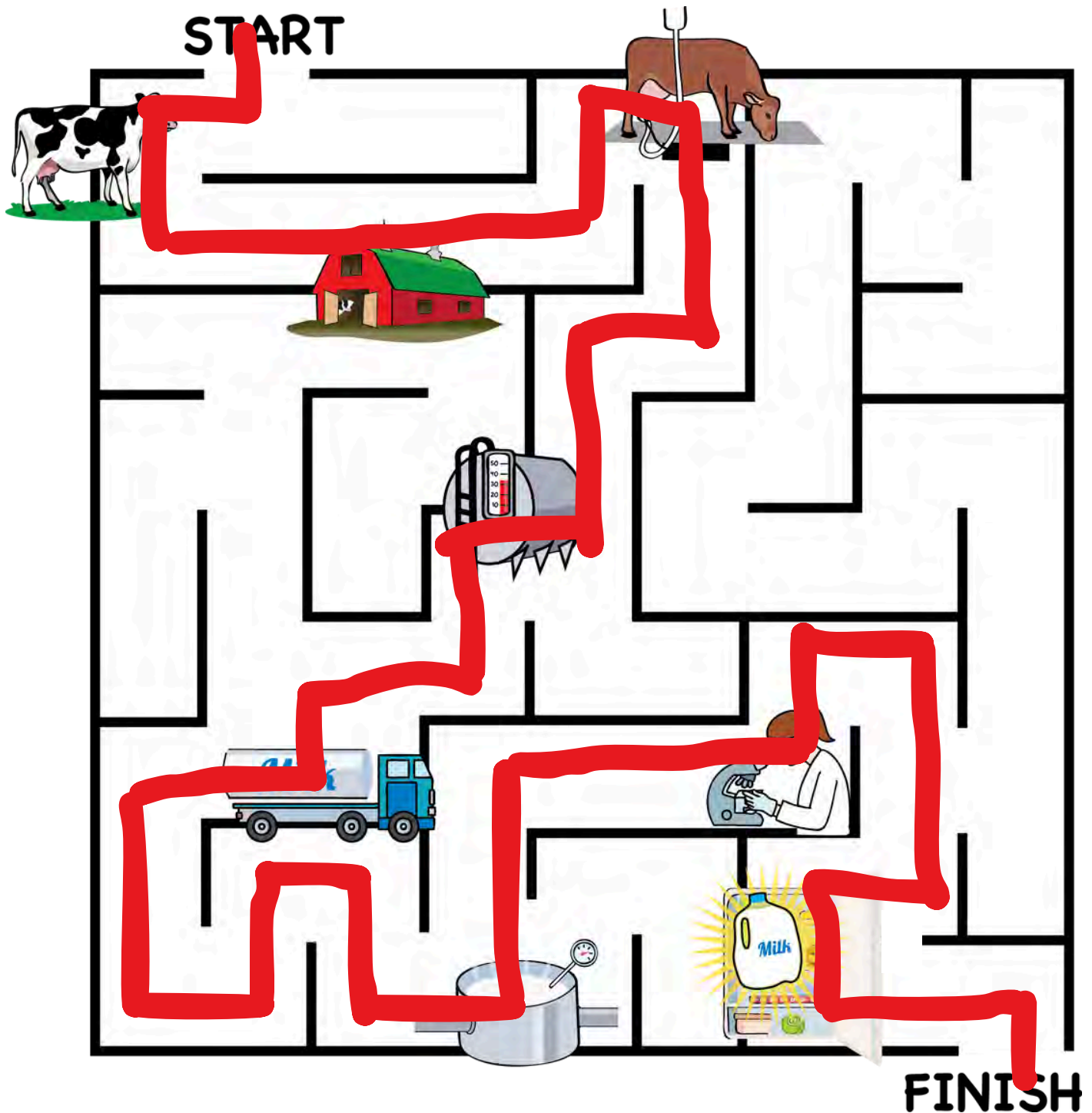
Name: **ANSWER KEY** _____

Date: _____

Discover Dairy and Milk Quality & Safety

Journey of Milk Maze ANSWER KEY

Directions: Trace the trail of milk from the cow to our table by following each of the six steps in milk quality and safety.



Name: _____

Date: _____

Lesson 2 Milk Quality & Safety

From Moo to You Sequencing Activity

Direction: Using the images on the next page, place an image for each step of the Journey of Milk - From Moo to You. Then write a word(s) to describe each step on the line under the picture.



1. _____



2. _____



3. _____



4. _____



5. _____



6. _____

Name: _____

Date: _____

Lesson 2 Milk Quality & Safety

Sequencing Activity Images

Direction: Use these images to complete your storyboard on the paper given to you.



Name: **ANSWER KEY**

Date: _____

Lesson 2 Milk Quality & Safety

From Moo to You Sequencing Activity ANSWER KEY

Direction: Using the images on the next page, place an image for each step of the Journey of Milk - From Moo to You. Then write a word(s) to describe each step on the line under the picture.



1. Farmer



2. Cows



3. Milk Tank



4. Milk Truck



5. Milk Processing Plant



6. Store and You

Name: _____

Date: _____

Lesson 2 Milk Quality & Safety
From Moo to You Storyboard Activity

Direction: Draw a picture for each step of the Journey of Milk - From Moo to You.



1. Farmer



2. Cows



3. Milk Tank



4. Milk Truck



5. Milk Processing Plant



6. Store and You

Name: _____

Date: _____

Lesson 2 Milk Quality & Safety

From Moo to You Storyboard Activity

Direction: Draw a picture for each step of the Journey of Milk - From Moo to You. Then write a word(s) to describe each step on the line under the picture.



1. _____



2. _____



3. _____



4. _____



5. _____



6. _____

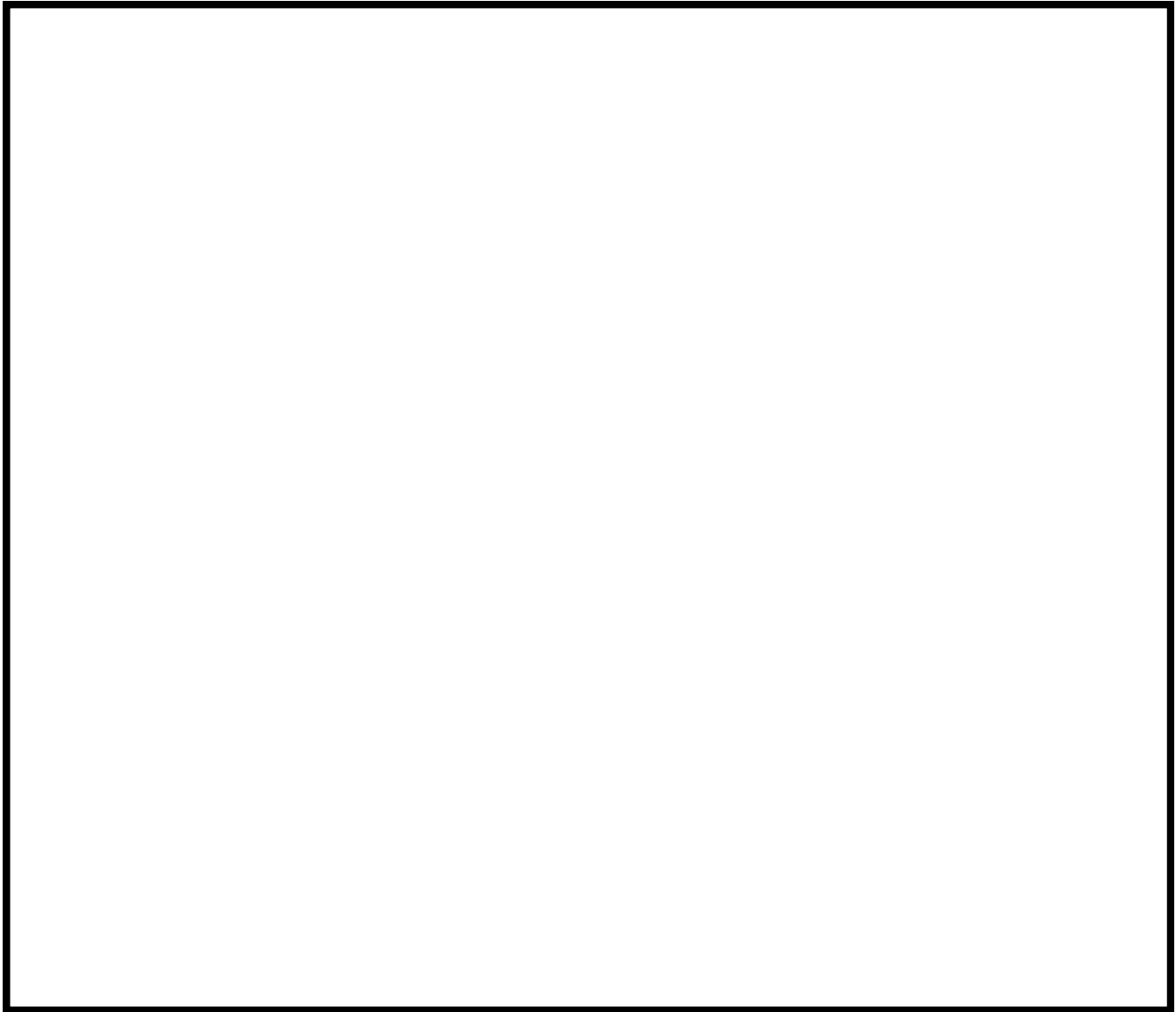
Name: _____

Date: _____

Lesson 2 Milk Quality & Safety

Writing Prompt

Prompt: Draw a picture showing the milk truck driver picking up the milk. Write a sentence about it.



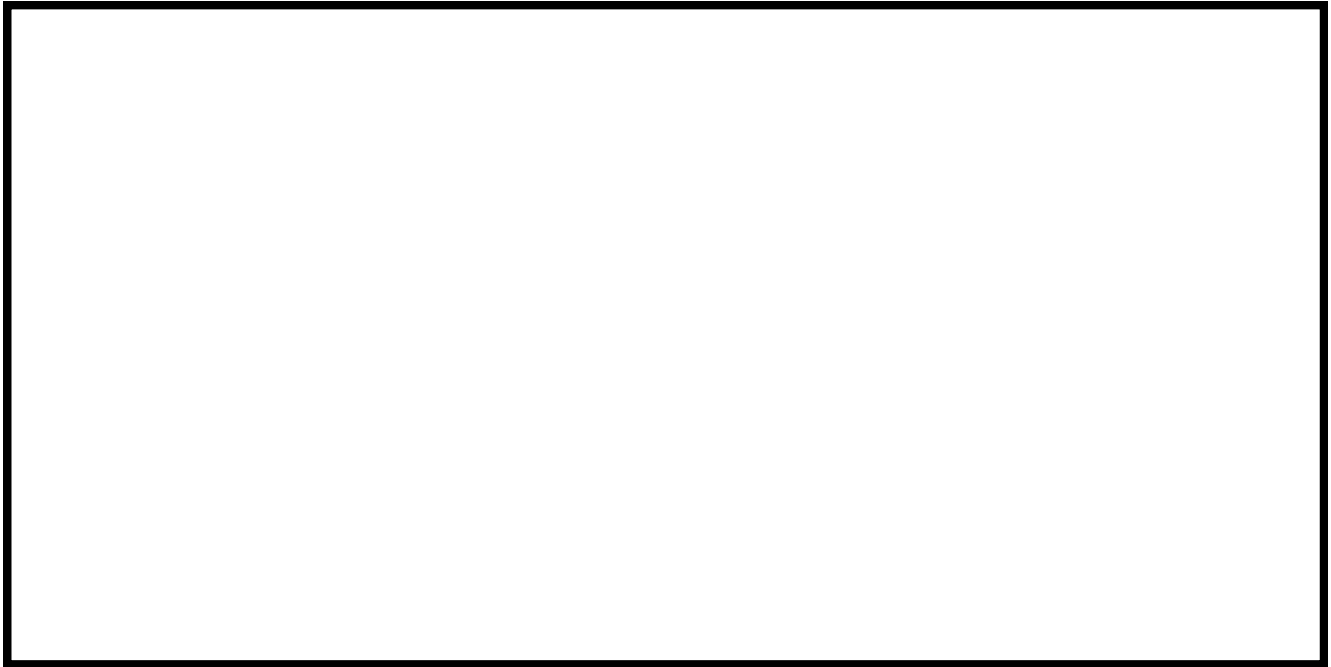
Name: _____

Date: _____

Lesson 2 Milk Quality & Safety

Writing Prompt

Prompt: Draw a picture to show the process of milk going from the farm to you. Then write 1 - 2 sentences explaining how the milk travels.



LESSON 2

Milk Quality and Safety

Keeping Milk Fresh

DISCOVER Dairy



»» Introduction



HOW DOES MILK GET FROM MOO TO YOU?

We will learn how the milk you drink gets from the cow on a dairy farm to you at home and school.



»» Activating Strategy



JOURNEY OF MILK

Let's look at how milk gets from Moo to You



»» Words on the Milk Journey



DAIRY DEFINITIONS

Barn: the place where cows live

Dairy Cow: a female that has had a calf at least once time

Dairy Foods: foods made from milk

Milk Plant: a place that takes milk, makes milk safe, and makes other foods from milk

Milk Tank: a special container that holds cold milk for the farmer, also known as a bulk tank

Milk Truck Driver: a person who takes milk from the farm to the milk plant

»» Vocabulary

BARN

Definition: the place where cows live



Outside of a BARN



Inside of a BARN

»» Vocabulary

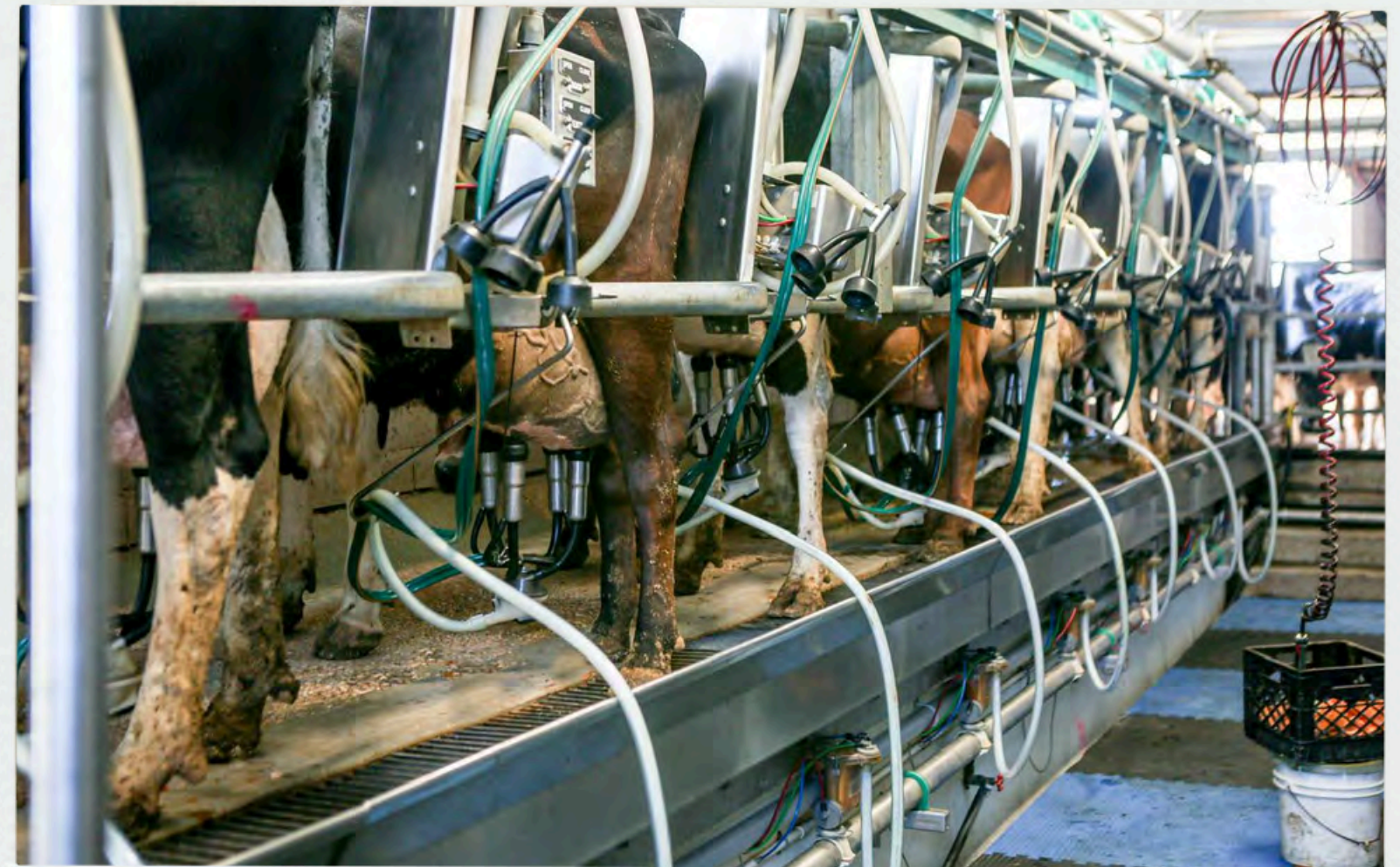


DAIRY COW

Definition: a female that has had a calf at least one time



Dairy Cow



Dairy Cows Getting Milked

»» Vocabulary



DAIRY FOODS

Definition: foods made from milk



Milk, Cheese, Yogurt, Butter,
Cottage Cheese, and Sour Cream



Ice Cream and Frozen Yogurt

»» Vocabulary



MILK PLANT

Definition: a place that takes milk, makes milk safe, and makes other foods from milk



Milk Processing Plant Machines



Bottling Milk

»» Vocabulary



MILK TANK

Definition: a special container that holds cold milk for the farmer, also called a bulk tank



Milk Tanks Outside



Milk Tanks In a Milk House

»» Vocabulary



MILK TRUCK DRIVER

Definition: a person who takes the milk from the farm to the milk plant




Milk Truck Picking Up Milk



Dan the Milk Truck Driver

INTRODUCTION

How does milk get from moo to you?

A stylized illustration of a white milk splash against a green background. The splash is composed of several white, rounded shapes that suggest the movement of liquid. Some smaller droplets are shown in the air above the main splash.

Let's explore six important steps to the journey of milk from cow to you.

»» From Moo to You: The Journey of Milk



STEP 1: THE FARMER



Farmers make sure the barn is clean and safe.



Farmers feed and water cows all day.



Farmers take care of cows when they are sick.

»» From Moo to You: The Journey of Milk



STEP 2: THE COWS



Cows eat about 100 pounds of feed and drink a bathtub full of water.



Cows like to be milked.



Cows are milked two or three times every day.

»» From Moo to You: The Journey of Milk



STEP 3: THE MILK TANK



Milk goes from the cow to the milk tank in hoses and pipes.



Milk is never touched by human hands.



Milk is cooled and put in the milk tank.

»» From Moo to You: The Journey of Milk



STEP 4: THE MILK TRUCK



Milk is tested before it goes on the milk truck.



Milk trucks take the milk from the farm to the milk processing plant.



The milk stays cold in the milk truck.

»» From Moo to You: The Journey of Milk



STEP 5: THE MILK PROCESSING PLANT



Milk is tested many times at the plant.



Milk is pasteurized to kill any germs.



Milk is made into different types of milk and other dairy foods.

»» From Moo to You: The Journey of Milk



STEP 6: THE STORE AND YOU



Milk is shipped cold to stores.



It takes less than two days for the milk to travel from farm to you.



You should keep your milk and dairy foods cold, covered, and clean.

»» From Moo to You: The Journey of Milk



CLOSURE

Share one step you
remember from our
exploration



»» Career Spotlight: Milk Truck Driver



INTRODUCTION

Milk truck drivers are an important part of the journey of milk. Without them, milk could not get from moo to you.



»» Career Spotlight: Milk Truck Driver



ACTIVATING STRATEGY

Let's discover the career of a milk truck driver.



»» Career Spotlight: Milk Truck Driver



WHO IS THE MILK TRUCK DRIVER

The milk truck driver is the person who takes milk from the farm to the milk processing plant.



» Career Spotlight: Milk Truck Driver



MILK TRUCK DRIVER RESPONSIBILITIES

1. Test the milk to make sure it is safe.
2. Pump the milk from the milk tank to the milk truck.
3. Drive the milk from the farm to the milk processing plant.



»» Career Spotlight: Milk Truck Driver



CLOSURE

- Tell us one responsibility of a milk truck driver.
- Are you interested in being a milk truck driver when you grow up?



**Share one thing you
need to do to keep
milk safe**

