

STUDENT GUIDE

ENGAGE LESSON 2



Part 1: Our Motivation

Record what we were trying to figure out that led to this investigation.



Part 2: Sharing Our Life Experiences

How do you use dairy products in your life? Consider the following questions and answer 1-2 that resonate the most with you.



What are your experiences with dairy products?

Do any of your family members eat these products?

How much dairy do you eat in a week?

What family/cultural recipes do you use dairy in?

How do you get these products?



Part 3: Observing the Module Phenomena

After watching the video about how milk gets to the table in the past and present, write your thoughts about how milk gets to your table today.

Consider: What tasks are these systems designed for? What similarities do you notice about the way the systems are designed? Differences?



Part 4: Creating and Sharing Initial Models

Record the Class Consensus Model of how dairy products were produced in the past in the space below.

Past

With your group, create an initial model that shows how you would currently answer our Module Question, *“How does the dairy system produce dairy products and get them to our table?”* In your model, be sure to:

- Use the systems model conventions we agree on as a class.
- Utilize images, icons, and pictures to visually represent different parts of the system.

Draw a copy of your group model below.

Present

Share your model with the class as instructed by your teacher. In the space below, record parts of the model you agree on with your peers and parts you disagree on.

Parts of the Model We Agree On	Parts of the Model We Disagree On

Record our Class Consensus Model in the space below.

So far, what do our models show about the task(s) the dairy system was designed to accomplish? How does this help or harm humans?

What are the gaps in our class model that you want to figure out more about?



Part 5: Asking New Questions

Record new questions you have that might help you:

- Find additional information about how the dairy system impacts the environment.
- “Fill in a gap” in your model or our class model.
- Settle an area of disagreement that we’ve identified in our models.

