

STUDENT GUIDE

ENGAGE LESSON 15



Part 1: Our Motivation

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



Part 2: Observing the Investigative Phenomenon

After watching the videos on how a dairy farm is created, record what you observed and reflect on how this could impact nearby plants and animals.

Video 1	
Video 2	

What do you think the intent was in designing the dairy production buildings in this way?

Do you think the dairy system was designed to take into account an impact to nearby plants and animals? Why or why not? Does this matter?



Part 3: Creating and Sharing Initial Models

Create an initial model that shows how you would currently answer our module question, “*What impact does the dairy production system have on biodiversity?*” Choose any model type that you think is best to show your thinking.

Review the models of your peers and record the strengths and limitations of the different model types that your peers used.

Model Type	Strength	Limitation



Part 4: Asking New Questions

Individually, brainstorm five questions that you would like to ask to find clarity on the question “How does the dairy system impact nearby plants and animals? Why does it matter?”

Share this list with a partner to decide on the three best questions.

Then, make a group of four to share again and to choose the best/most significant question to share with the class.

5 Questions about biodiversity impacts of dairy system	1. 2. 3. 4. 5.
3 Most Important Questions (with partner consensus)	1. 2. 3.
1 Best Question (with small group consensus)	1.