

STUDENT GUIDE

ELABORATE LESSON 5



Part 1: Our Motivation

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



Part 2: Summarize Information About Parts of the Dairy System

Share your initial ideas about the benefits and downsides of the dairy production system. Consider specifically:

- On a larger scale, what benefits do we receive from the current dairy food system?
- What are some of the drawbacks or downsides associated with the dairy system?

Remember to think critically and write down your thoughts and questions in each corresponding section of the chart.

Benefits	Drawbacks



Part 3: Obtaining Information from Texts

Complete the graphic organizer below to help you define one of the following terms: economic, social, environmental, and geopolitical.

Definition	Characteristics
Example	Non-Example

Record the definitions we agree on as a class.

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Read the section of the text that you chose, and annotate any economic, social, environmental, and geopolitical costs, risks, and benefits that you find. Then, meet with your jigsaw group and summarize the different costs, risks, and benefits you found in the table below.

Economic	Social
Costs:	Costs:
Risks:	Risks:
Benefits:	Benefits:

Environmental	Geopolitical
Costs:	Costs:
Risks:	Risks:
Benefits:	Benefits:



Part 4: Revise Your Dairy System Model

Use the evidence that you have gathered throughout this lesson to revise our class consensus dairy system model to help us better understand our Driving Question, *“What is the impact of the dairy system on the environment?”*

In your revised model, be sure to:

- Identify if the costs, risks, and benefits are associated with social, economic, environmental and/or geopolitical impacts.
- Describe the impacts of the dairy system that extend beyond its boundaries by drawing arrows out of the system.

Reflect on your model. What do you see about the intent of the design of the dairy system and the tasks it accomplishes? What are the unintended consequences of the system design? In your response, be sure to:

- Describe the task the design of the dairy system was intended for.
- Describe the economic, social, environmental, and geopolitical costs and risks as well as benefits of the system.
- Describe how the system boundaries help you understand the impacts the dairy system has on the environment.