

STUDENT GUIDE

EXPLAIN 1 LESSON 9



Part 1: Our Motivation

Record what we were trying to explain that led to this investigation.





Part 2: Revisiting Initial Models

Revise your initial model that shows how you would currently answer our Module Question, “*How could cow burps be influencing climate change?*” In your model, be sure to utilize images, icons, and pictures to visually represent what is happening in the atmosphere.

Be sure to describe:

- How you are defining your system and its boundaries.
- How you think greenhouse gases influence climate via the greenhouse effect.
- How the movement of matter (carbon dioxide and methane) differs from the movement of energy.

Draw a copy of your model in the space below.



Part 3: Class Consensus Model

Use this space to record new ideas you gained from the class discussion.

**Part 4: 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.