

# STUDENT GUIDE

## EXPLAIN 2 LESSON 11



### Part 1: Our Motivation

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



## Part 2: Revising Models of How Cow Burps May Be Influencing Climate

Revise your 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.
- How the carbon cycle moves carbon dioxide and methane in different ways.

Draw a copy of your model in the space below.



### Part 3: Creating a Class Consensus Model

In the space below, 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.