

# AI for Scientific Modeling

## Refine the Model

**Purpose:** Critique an AI-generated model, identify what to keep, revise, and add, and justify how their revision better explains the phenomenon.

### PHENOMENON

When a metal spoon and a wooden spoon are left in hot soup, the metal spoon becomes hot much faster than the wooden spoon.

### AI MODEL

The soup heats both spoons.  
Metal gets hotter faster because it absorbs more heat.  
Wood stays cooler because it is thicker and does not heat up as much.  
That is why the metal spoon feels hotter.

#### How the Spoons Heat Up



### PARTICIPANT DIRECTIONS

1. Read the phenomenon and the AI model.
2. Mark one part to keep, one part to revise, and one part to add.
3. Revise the model so it better explains the phenomenon.
4. Write 1-2 sentences explaining why your revision is stronger.

### USE THIS ORGANIZER

Keep	
Revise	
Add	
Why is your revised model better?	

### SHARE-OUT PROMPT

**Be ready to share:** One revision your group made and the science idea that justified it.