

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Section: \_\_\_\_\_

# Model Evaluation Form

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Scientists use models to understand things that are too big, too small, too fast, or too slow to study directly. Let's evaluate the model you used today! Remember that all models have limitations. The goal is to understand how models can be useful tools for scientific understanding. This form will help you practice important science skills.

## NGSS Standards:

- MS-ETS1-4: Develop a model to generate data
- Science Practice: Developing and Using Models
- Crosscutting Concept: Systems and System Models

Model Name: \_\_\_\_\_

Model Location: \_\_\_\_\_

## Part A: Describe This Model

### 1. What does this model look like? (MODE)

Check all that apply:

- ☐ Has pictures or drawings
- ☐ Is something I can touch

- ☐ Uses symbols (like arrows or +/-)
- ☐ Uses words to explain
- ☐ Is flat like paper (2D)
- ☐ Has depth like a sculpture (3D)
- ☐ Doesn't move
- ☐ Moves or animates
- ☐ Is on a computer
- ☐ I can control it

Draw or describe this model in 1-2 sentences: \_\_\_\_\_

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## 2. How much like the real thing is it? (ACCURACY)

What does it get RIGHT? (List 2 things)

- \_\_\_\_\_
- \_\_\_\_\_

What does it LEAVE OUT or CHANGE? (List 2 things)

- \_\_\_\_\_
- \_\_\_\_\_

## 3. Why was this model made? (PURPOSE)

Check the reasons that fit:

- ☐ To help us learn
- ☐ To show how it works
- ☐ To guess what will happen
- ☐ To see things we normally can't
- ☐ To test an idea
- ☐ To compare to something we know
- ☐ To show size differences
- ☐ To copy what really happens

The MAIN reason for this model: \_\_\_\_\_

#### **4. Could this model change? (PERMANENCY)**

Pick one:

- ☐ This model shows facts that won't change
- ☐ This model is based on strong evidence but might be updated
- ☐ This model is our best guess right now
- ☐ This model is just one idea among many

Why do you think so? \_\_\_\_\_

\_\_\_\_\_

## Part B: Think About It

### 5. What's Good and Not So Good?

This model really helps me understand: \_\_\_\_\_

\_\_\_\_\_

This model doesn't help with: \_\_\_\_\_

\_\_\_\_\_

### 6. Design Challenge!

If YOU could make this model better:

My first change: \_\_\_\_\_

Because:

\_\_\_\_\_

My second change:

\_\_\_\_\_

Because:

\_\_\_\_\_

## Part C: Team Talk Time!

### 7. Small Group Discussion (8 minutes)

Get with 2-3 classmates and talk about:

1. How did each person describe the model? Same or different?
2. What's the most helpful part of this model?
3. What's confusing or missing?

Our team's favorite thing about this model: \_\_\_\_\_

\_\_\_\_\_

Our team's biggest question about this model: \_\_\_\_\_

\_\_\_\_\_

### 8. Models in Science

Discuss with your group:

- Why can't scientists always study the real thing?
- What would happen if we only had one model for everything?

Write one idea from your discussion: \_\_\_\_\_

\_\_\_\_\_

## Part D: Make Connections

### 9. Share with a Friend

Find a partner from a different group.

Partner's name: \_\_\_\_\_

One cool thing they said about the model: \_\_\_\_\_

\_\_\_\_\_

One thing we disagreed about: \_\_\_\_\_

\_\_\_\_\_

## Part E: Wrap It Up

### 10. Model Detective

Finish these sentences:

The most important thing I learned about models today is \_\_\_\_\_

\_\_\_\_\_

If I were teaching someone about this model, I would make sure they knew \_\_\_\_\_

\_\_\_\_\_

## 11. Quick Check

Rate yourself:

- I can explain what this model shows: 😞 Not yet 😐 Getting there 😊 Got it!
- I can identify what's missing from this model: 😞 Not yet 😐 Getting there 😊 Got it!
- I understand why scientists use models: 😞 Not yet 😐 Getting there 😊 Got it!