

**Main Ideas, Key Points,
Questions:**

After watching the video segment, write down key points, main ideas and big questions.

Objective(s):

- *To distinguish between a hypothesis and a scientific model.*

Notes:

During the video segment, use words, phrases or drawings to take notes.

Summary:

*After watching the video segment, write at least three sentences explaining what you learned.
You can ask yourself: "If I was going to explain this to someone else, what would I say?"*

After watching the video and performing any associated labs and/or experiments, you should be able to answer the following:

1. When a scientist makes an observation, what is the best way to start generating ideas for research (circle one)? Explain why.

- A) using mathematics and computational thinking**
- B) argumentation from evidence**
- C) asking questions**
- D) communicating experimental results**

2. How is a hypothesis different from an observation?

3. A hypothesis must be testable. What does it mean to be “testable”?

4. In science, what is a model?

5. How can a physical model, like a model airplane or a model house, be very useful?

6. How can a model like a computer simulation be very useful?