### Part I: The "Scientific Method" in Action

### Summarize the investigation described in your video…

1. What motivated the scientist(s) to investigate a question?
2. What ideas did the scientist(s) begin with? What questions did the scientists ask?
3. Did the scientists start with a hypothesis? Did the scientist(s) make a prediction before gathering evidence?
4. How did the scientists test their ideas? Independent, dependent variables? Did they use a control?
5. What evidence/data did the scientist(s) gather? What did they measure?
6. Did the experimental results confirm their initial hypotheses, or did they have to modify their thinking on a subject?

### Part II: Extension

**Compare “textbook” overviews of the scientific method to the investigations observed in the videos:**

1. What do you think drives scientists to perform their work?

### Part II: Extension

**Compare “textbook” overviews of the scientific method to the investigations observed in the videos:**

1. Scientific experiments rarely go without a hitch. Do you think science has to be so "messy"? Why or why not?

### Part II: Extension

**Compare “textbook” overviews of the scientific method to the investigations observed in the videos:**

1. When we say "science is a public process," what do we mean? How is peer review designed to work?

### Part II: Extension

**Compare “textbook” overviews of the scientific method to the investigations observed in the videos:**

* How do the “textbook” overview of the scientific method compare to the investigations observed in the video? Is the scientific method a linear process? Did all of the investigations in action follow the same inquiry process?