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

Laboratory: Myth Busters: Class: \_\_\_\_\_\_\_\_

**The Scientific Method**

**1. Observation:**

Fact or Fiction: “I heard that salt and soda will cause a fizzing reaction.” How can we test

this statement to find out if it is a myth or fact?

**2. Independent Variable:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (What are we changing?)

**3. Dependent Variable:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(What are we testing?)

**4. Problem:** What are you trying to figure out? Write this in the form of a question.

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**5. Research:** what can you find out about your question from different sources?

**6. Hypothesis:** What do you think you are going to find out? (Educated Prediction)

If salt is added to soda, **then…**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Because***\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**7.**  **Experiment:**

a. Materials: List the materials you will use in the experiment.

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**b. Procedures:** Make a detailed list of the steps in your experiment.

1 )Obtain a cup of soda.

2) Once you have been given the signal, pour the salt in to the cup of soda.

3) Write down your observations.

**8. Observations/Data and Data Analysis:** What did you observe when you performed the experiment? Data

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**9. Conclusion:** From what you observed, was your hypothesis correct? Why or why not?

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