

### **Mentos and Soda Activity and the Scientific Method**

**1. Write your observation about the demonstration.**

**2. What factors/conditions could be changed?**

**3. Choose ONE factor/condition to change from the list above.**

The factor/condition is called the \_\_\_\_\_ variable.

**4. Explain how the result from this change can be measured/observed?**

Is this data qualitative or quantitative?

**5. Write a Testable (experimental) question.**

How does \_\_\_\_\_ (IV) affect \_\_\_\_\_ (DV)?

**6. Write a hypothesis.**

If \_\_\_\_\_ is changed to \_\_\_\_\_ (IV) then \_\_\_\_\_ (DV) be specific.

**7. What factors/conditions will remain the same? (Constants)**

**8. Prepare a data table on a separate sheet of paper to record your results. (Must include at least three trials).**

**9. Write instructions on how to complete your experiment. Be precise. Your directions should be written so that another person could repeat your experiment without asking questions. Include a section for materials needed and for your procedure.**