

Scientist \_\_\_\_\_ Date \_\_\_\_\_

**Scientific Investigation  
Diet Coke and Mentos Experiment**

**Purpose/ Question:** What do you want to find out?

- What will happen to \_\_\_\_\_ if \_\_\_\_\_ are added to it?

**Prediction:** What do you think the experiment will show you?

- A scientific prediction is a forecast about what may happen in the experiment.
- I think the Diet Coke will \_\_\_\_\_ when Mentos are added.

**Hypothesis:** (If..., then...)

- A hypothesis is a prediction about the relationship between variables.
- If Mentos are added to Diet Coke, then \_\_\_\_\_

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**Manipulated variable/Independent variable:**

- A manipulated variable is the part in an experiment that is changed by the experimenter.

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**Responding variable/Dependent variable:**

- A responding variable is the part in an experiment that changes because of the manipulated variable.

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