

Name: _____

Date: _____

Period: _____

Alka-Seltzer Lab

Materials: Alka-Seltzer tablet, film canister, water

Procedure:

- 1.) Fill the film canister $\frac{1}{2}$ full with water
- 2.) Drop in $\frac{1}{4}$ a tablet of alka seltzer
- 3.) Snap the lid tightly into the canister, turn it over on a hard surface and stand back!

Observe what happens: _____

Ask a question based on your observations (make sure your question is testable!)

1.) Define the problem: (make it in the form of a question)

2.) Hypothesis: (try to answer your question...it makes it easier if you use an "if...then..." statement)

3.) Controlled Experiment: (Make sure you have chosen a single, solitary, uno, un, ONE and only one variable!!)

Independent Variable: (What you will be changing or testing for in the experiment)

Control: (Two options: what are you going to compare? Identify a setup without your variable)

Two constant factors: (What conditions will be the same for both your control and experimental group)

Procedure: (look at the steps above and modify (change) them as necessary) BE SPECIFIC, you will not be able to start until you have had this part checked.

- 1.) _____
- 2.) _____
- 3.) _____
- 4.) _____
- 5.) _____

4.) Results: (not to confuse you but there is another variable we use in science; this one is called the DEPENDENT VARIABLE, because it depends on the experiment. It is what we record or the data we collect; it depends on the independent variable)

Create a chart from the experiment

Independent variable: _____	Dependent variable: _____

5.) Conclusion: Here is where you explain your results to your reader and connect them to your hypothesis. Discuss reasons why it did or did not work, and also how you could modify the experiment. What could you explore further?
