

Scientific Method Lab Using Alka-Seltzer:Part 2

Name _____ Date _____ Period ___ Group ___

Part II

In Part 1 you observed the results of the effect of temperature on the time it takes Alka-Seltzer to dissolve. In Part 2 you will investigate the effect of a different variable, other than temperature, on the time it takes Alka-Seltzer to dissolve. You and your partner need to agree on what this different variable will be that you'll investigate.

To do this you must first state the Problem.

Problem: _____

Next you must write a hypothesis based on your stated problem.

Hypothesis: If _____
_____ **Then** _____

You need to identify the variables.

Independent Variable (the manipulated variable): _____

Dependent Variable (the responding variable): _____

Control Variables (the non-changing variables): _____

List the materials needed to do your experiment.

Materials:

List a simple set of procedures. Your steps should be clear enough so that anybody could follow them and get the same results that you do.

Procedures:

Please list these on separate lined paper,neatly printed and staple it to this paper.

You will need to collect data and organize it in a chart or table.

Data:

Overall Conclusion : **1**-State if your original hypothesis was correct or incorrect. This should be based on the best information collected from the experiment. **2**-If it was incorrect, give the correct answer, again based on the best information collected from the experiment. **3**-Include a brief numerical summary and comparison of the data collected during the experiment telling how it supports your answer for the hypothesis.

Sources of Error: Identify two things that people may have done incorrectly that would have prevented their mixture from being separated. Be specific about what might have been done.
