

# The Scientific Method - Plop Plop Fizz Fizz

In this lab, you will develop and test a hypothesis, analyze data and draw conclusions. You are given guidance at each step of the way. Fill out this form completely - do not skip steps!

## Step 1: Question or Observation

**Question: What factors will make an alka-seltzer tablet dissolve faster**

Variables to test: Tap water, Warm water, Cold water, Salt Water, Acidic water (using vinegar)

Of the variables above, which should serve as your CONTROL group? \_\_\_\_\_

In this experiment, the manipulated variable is the type of water (warm, salt..etc).

What is the responding variable, or the thing you will be measuring?

\_\_\_\_\_

## Step 2: Develop a hypothesis. Finish this statement...

Alka seltzer will dissolve fastest in \_\_\_\_\_ water, and the slowest in \_\_\_\_\_ water.

## Step 3: Design and Conduct and Experiment

Answer these questions regarding your experimental design:

A) Will you use a whole tablet or a half a tablet of alka seltzer? \_\_\_\_\_

B) How will you measure how quickly it dissolves? \_\_\_\_\_

C) How much water will you place in your beakers? \_\_\_\_\_

D) Will this amount be the same in all of your tests? \_\_\_\_\_

## Step 4: Create a table to record your results.

Type of Liquid	Dissolve Time

## Step 5: Draw Conclusions

– in a complete sentence, answer your experimental question by summarizing the data