

**Dear 6th grader:**

**Please print out all material. Follow instructions and write neatly. This entire packet should be brought to school on the first day as it will be a grade.**

Scientific Method Practice

1. Go to the quizlet.com website to make flashcards or read the word file attached.

<https://quizlet.com/25071514/steps-of-the-scientific-method-steps-definitions-and-examples-of-each-step-flash-cards/>

2. Next, try the following lab implementing the scientific method. Be sure to complete the lab written work that follows.

## **The Scientific Method - Plop Plop Fizz Fizz**

In this lab, you will develop and test a hypothesis, analyze data and draw conclusions.

You are to have parental 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, **circle** the one that should serve as your CONTROL group.

In this experiment, the independent 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 (Use these guided questions and attach your procedure on a separate paper, be sure to list your steps!)**

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 containers \_\_\_\_\_

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

D) What safety precautions should you take? \_\_\_\_\_

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

Type of Water	Dissolve Time

**Step 5: Draw Conclusions**

– In complete sentences, answer your experimental question by summarizing the data.

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