

**Lab 1: Nothing in Science Sucks (sometimes it just seems that way)**

**Problem:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

**Possible Explanation:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**How could we test this idea (from the lines above)?** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Data: (Make sketches to go in the boxes below make sure they are fully labeled)**

<div data-bbox="272 1058 630 1136" style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">         Show experimental set-up with control before lighting       </div>	<div data-bbox="656 1058 1058 1136" style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">         Show experimental set-up with control after lighting and measuring       </div>	<div data-bbox="1094 1058 1417 1136" style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">         Show the results of your own test including control       </div>
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**Data Table: (Find a way to measure the water level inside the beaker)**

	<b>Before lighting</b>	<b>After One candle</b>	<b>Data from your own test here</b>
Water height (in cm)			

Describe anything difficulties with the experiment: \_\_\_\_\_

\_\_\_\_\_

**Conclusions/Questions:**

1. What was inside the beakers before we turned them upside down? \_\_\_\_\_

\_\_\_\_\_

2. Why was it important to use the same kind of beaker, tray, and same starting amount of water for each experiment, and for each person?

\_\_\_\_\_

3. For each lab group, was the amount of air trapped under the beaker, before lighting, the same for all experiments (set-ups)?

\_\_\_\_\_

4. In which experiment did the water level rise the highest? \_\_\_\_\_

\_\_\_\_\_

5. What was different in the 3 different experimental set-ups ( or what was the variable)? \_\_\_\_\_

\_\_\_\_\_

6. Did all experiments cause the same amount of heating? Why do you think so? \_\_\_\_\_

\_\_\_\_\_

7. Now after performing 3 different tests, why do you think the water rose? \_\_\_\_\_

\_\_\_\_\_

8. Did your experiments support what you originally thought (on the front side)? Or did you come up with a new explanation?

\_\_\_\_\_

9. List 3 things from this experiment that you learned: \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_