

Lab 1.1: 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 style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Show experimental set-up with control before lighting </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Show experimental set-up with control after lighting and measuring </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Show the results of your own test including control </div>

Data Table: (Find a way to measure the water level inside the beaker)

	Before lighting	After One candle has burned out	Data from your own test here
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. _____