

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)

| | | |
|---|--|---|
| Show experimental set-up with control before lighting | Show experimental set-up with control after lighting and measuring | Show the results of your own test including control |
| | | |

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. _____