



Name: \_\_\_\_\_

## LAB 7.2 - The Point is ...Condensation

### The Task:

Design an experiment to prove that the condensation point and boiling point of a pure substance are actually the same point.

*Hints: What will you have to do?  
What equipment will you need to use?  
Will your procedure attempt to prove the statement above?*

### List of Materials:

### Apparatus Design:

Procedure: (attach your final procedure)

### Focus Questions:

(Answer on separate paper and... **\*\* Justify your answer for each...Why??\*\***)

- To think about while you boil during your experiment....

1. What are the bubbles in the liquid when it starts to boil?
2. Why do the bubbles seem to come from the bottom of the container?
3. What happens to the bubbles as they reach the surface? Can we see it?
4. What is the visible component of "steam"?

- To answer upon completion of your experiment....

5. How did you prove that condensation starts at the same temperature as boiling?
6. Are your results what you expected? Why or why not?
7. How do you explain your results?
8. List any sources of experimental error or design flaws that affected your result. (i.e. "What would you do differently next time?" "What didn't seem to work?")