

Student Observation Sheet

1. **Hypothesis.** The substance I have chosen to investigate is: _____

a. What do you think is the melting point of your substance? Why?

b. What do you think is the boiling point of your substance? Why?

c. What do you think is the freezing point of your substance? Why?

- d. In the space below, design an experiment to test the melting, freezing, and/or the boiling points of your substance.

2. **Observations.**

Initial temperature of substance: _____

Initial volume of substance: _____

Initial state of substance (circle one): solid liquid gas

Length of time to get to the melting or freezing point: _____

Melting or freezing point: _____

Length of time to get to the boiling point: _____

Boiling point: _____

Observations (melting/freezing point)	Observations (boiling point)

3. Do the changes of state you are observing take place because of a release of heat or an absorption of heat? Explain.

4. What physical changes in matter did you observe?

- a. What caused those changes to take place?

- b. What would have to happen to reverse those changes?

5. During your experiment did you notice any chemical changes? If yes, what chemical changes in matter did you observe?

6. What caused those changes to take place?

7. From your research and learning through this experiment, what conclusions did you make about changes in matter?
