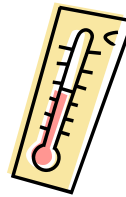


PHASE CHANGE LAB



Name_____

Date_____

Instructions:

1. Using your computer, create a spreadsheet with the fields, "Minute" and "Temperature".
2. Make sure everyone in you group is wearing safety goggles.
3. Turn your hotplate to medium heat. **Remember, it will be hot! Do not touch your hot plate!**
4. Place your glass beaker filled with ice on your hotplate.
5. Take the temperature immediately and record the temperature every minute on your spreadsheet. Remember that the temperature will not be uniform in the beaker. Place the thermometer in the same place each time you find the temperature.
6. Once the water has been boiling for three minutes, you may stop recording temperatures.
7. Turn your burner off and let it cool completely before cleaning your lab station.
8. Using the data you collected insert a line graph below your data.
9. Print your group's spreadsheet and graph.
10. Answer the questions below using complete sentences.

Questions:

1. Describe how to use a thermometer.

2. At what temperature did your ice begin to melt?

3. At what temperature did your ice completely melt?

4. At what temperature did your water begin to boil?
5. At what temperature did your water completely boil?
6. What is a phase change?
7. How did you create phase change?
8. Draw a picture of what the molecules look like in ice.
9. Draw a picture of what the molecules look like in water.
10. Draw a picture of what the molecules look like in steam.

Bonus: How well did your group work together to complete this lab? Be specific.