**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**TEMPERATURE GRAPHS:**

1. **BACKGROUND INFORMATION (Definitions):**

**A graph is a useful way to represent the results of an experiment. A graph gives an overall picture of the results. It can also predict values that occur between, or after an experiment.**

**Water boils at a temperature of 100 C.**

1. **ASK A QUESTION (Aim):**
2. **HYPOTHESIS (Use if, then, and because statement):**
3. **MATERIALS/APPARATUS (what do you need):**
*
*
*
*
*
*
*
1. **SAFETY (Identify any safety equipment and procedures for this lab):**
2. **METHOD:**

**Independent Variable:** What is the one thing that will change in your experiment?

**Dependent Variable:** How will you measure your results?

**Constant Variable:** (What are you keeping the same?):

1. **PROCEDURE (list all the steps you do):**
2. **DIAGRAM:**
3. **OBSERVATIONS:**

|  |  |
| --- | --- |
| **TIME (mins)** | **TEMP ( C)** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

1. **RESULTS:**
* **Plot your data in the graph below.**
* **Include a title and labels for your x and y axis.**
* **Join the data points with a smooth line.**

****

1. **CONCLUSION (relate to Aim, Hypothesis, and Results):**
2. **Was your hypothesis correct?**
3. **Why shouldn’t a thermometer rest on the bottom of the beaker during heating?**
4. **Why would you not use a thermometer with a scale from 0 C to 30 C for measuring the temperature of your body?**
5. **Do you think this experiment was fair test’? Explain why or why not?**
6. **Does adding salt to water change the way the temperature rises when the water is heated?**