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

**TESTING 4 MYSTERY SUBSTANCES LAB**

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**PART 2: TURNING UP THE HEAT**

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

Heating a substance can cause a **chemical change** to occur. The substance can become something entirely different. This is a **permanent change** and cannot be reversed.

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):**

Step 1:

1. **DIAGRAM:**
2. **OBSERVATIONS:**

**Table 1.1 Heating Up our Mystery Substances**

|  |  |  |
| --- | --- | --- |
| **Mystery**  **Substance** | **What I think WILL happen when each substance is heated?** | **What DID happen when each substance is heated?** |
| **A** |  |  |
| **B** |  |  |
| **C** |  |  |
| **D** |  |  |

1. **RESULTS (looking at your observations from both labs):**

**Table 1.2- Guessing Each Mystery Substance**

|  |  |  |
| --- | --- | --- |
| **Mystery**  **Substance** | **What do you think each substance is?**  **(eg. Milk)** | **Briefly describe how you came to this conclusion based on your observations from Just Add Vinegar and Turning Up the Heat Lab.** |
| **A** |  |  |
| **B** |  |  |
| **C** |  |  |
| **D** |  |  |

1. **CONCLUSION (relate to Aim, Hypothesis, and Results):**
2. Were your predictions correct (look at your Aim, Hypothesis and Results?