Mass and Change Lab Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Hour \_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Purpose:** To develop tools to describe matter quantitatively. One useful property of matter that can be measured to determine how much “stuff” we have is mass. The balance is the tool used to measure the mass of an object. This lab provides us with the opportunity to examine a number of instances in which the appearance of the system changes to see if the mass also changes.

**Part 1 – Mass of Steel Wool**

*Question:*

*Prediction:*

*Procedure:*



*Observations Data*

*Calculations:* Determine any change in mass.

Enter your results into the class data.

*Particle Diagram*

After

Before

**Part 2 – Mass of Ice and Water**

*Question:*

*Prediction:*

*Procedure:*

*Observations Data*

*Calculations:* Determine any change in mass.

Enter your results into the class data.

**Part 3 – Mass of a Precipitate**

*Question:*

*Prediction:*

*Procedure:*

*Observations Data*

*Calculations:* Determine any change in mass.

Enter your results into the class data.

**Part 4 – Mass of Dissolved Sugar**

*Question:*

*Prediction:*

*Procedure:*

*Observations Data*

*Calculations:* Determine any change in mass.

Enter your results into the class data.

**Part 5 – Dissolved Alka Seltzer**

*Question:*

*Procedure:*

*Observations Data*

*Calculations:* Determine any change in mass.

Enter your results into the class data.

**Part 6 – Mass of Burning Steel Wool**

*Question:*

*Prediction:*

*Procedure:*

*Observations Data*

*Calculations:* Determine any change in mass.

Enter your results into the class data.

*Particle Diagram*

After

Before

Team Data

|  |  |  |  |
| --- | --- | --- | --- |
|  | Change in mass (g) | Did something enter or leave the system? | Was something new formed? |
| **1 – Mass of Steel Wool** |  |  |  |
| **2 – Mass of Ice and Water** |  |  |  |
| **3 – Mass of a Precipitate** |  |  |  |
| **4 – Mass of Dissolved Sugar** |  |  |  |
| **5 – Dissolved Alka Seltzer** |  |  |  |
| **6 – Mass of Burning Steel Wool** |  |  |  |