

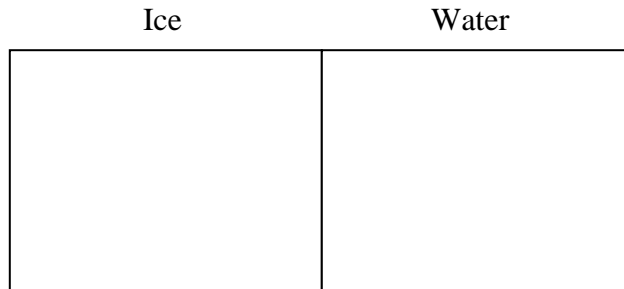
Name \_\_\_\_\_

Date \_\_\_\_\_ Pd \_\_\_\_\_

## Mass and Change Lab Analysis

1. When you pulled the steel wool apart, you found that the mass was unchanged. But, when you heated the steel wool, you found that the mass increased. Explain.
2. When ice melts, the *volume* of water is **smaller** than that of the ice. How does the mass of the water compare to the mass of the ice?

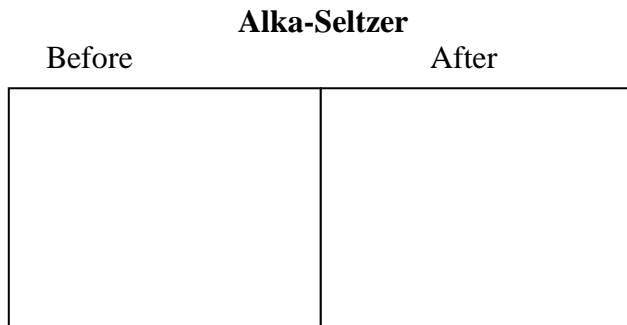
Draw diagrams (at the simple particle level) of the ice and water. Use small circles to represent the particles of water.



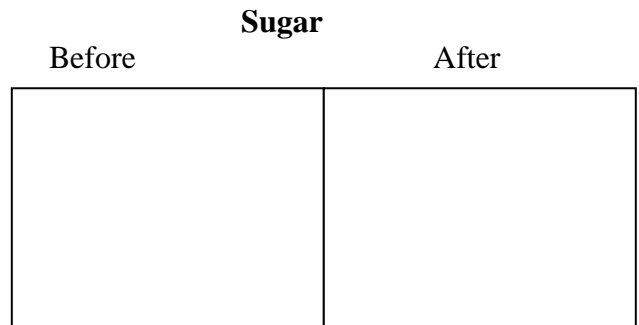
System: \_\_\_\_\_

3. When the sugar dissolved in the water, you found that the mass remained unchanged. When the Alka-Seltzer dissolved in the water, the mass of the system changed. Explain.

Draw diagrams (at the simple particle level) of each of the materials before and after it was dissolved.

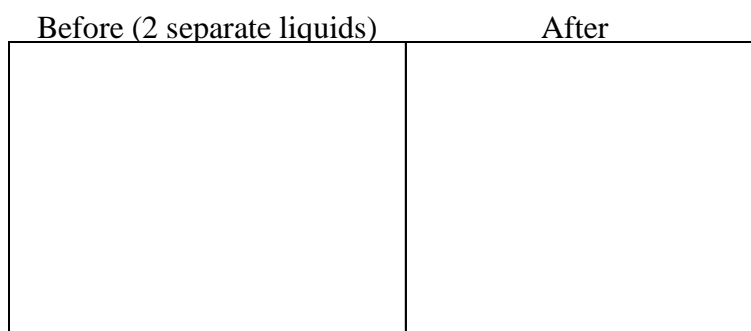


System: \_\_\_\_\_



System: \_\_\_\_\_

4. When the two liquids were mixed together, something new was formed, however, the mass was unchanged. Draw diagrams (at the simplest particle level) to show before and after the liquids were mixed together.



System: \_\_\_\_\_

5. State the Law of Conservation of Mass in your own words.