

Name _____

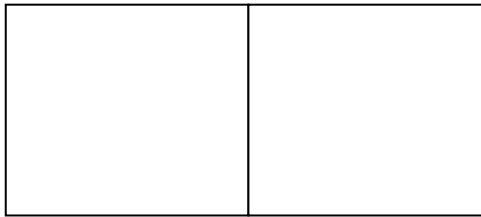
Date _____ Pd _____

Unit 1 Handout 1: Mass and Change (Honors)

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 changed. Explain.

Draw diagrams (at the simple particle level) of the steel wool before and after the change.

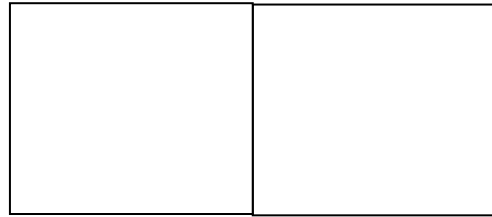
Steel wool-pulled apart



before

after

Steel wool-heated

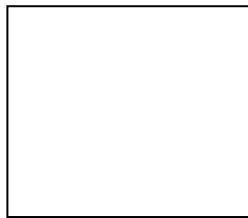


before

after

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.



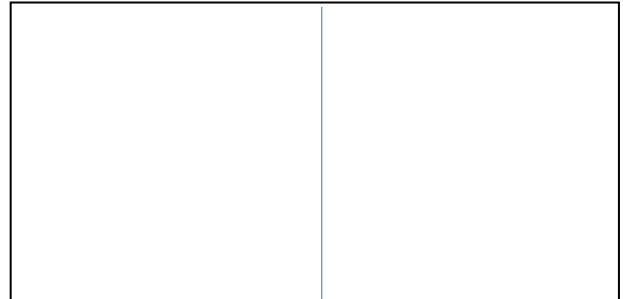
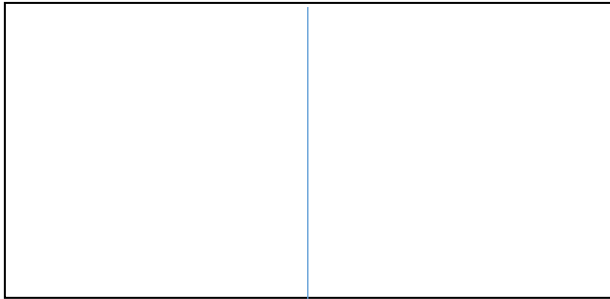
Ice



Water

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.



4. Write the Law of Conservation of Mass in **your own words**. Give an example from the lab you did.