

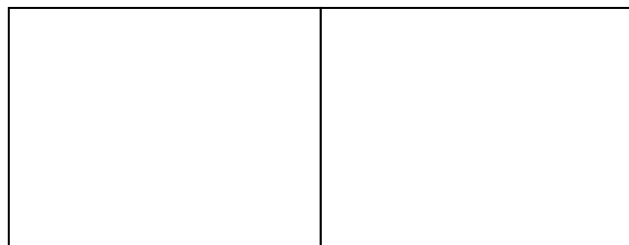
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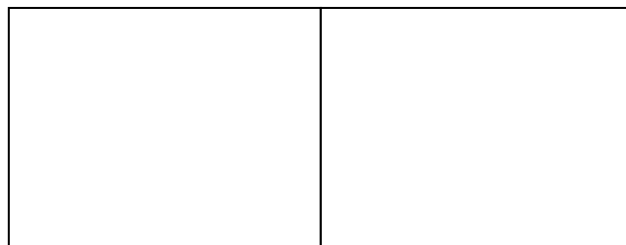
Unit 1 Worksheet 1: Mass and Change

1. When you pulled the steel wool apart, you found that the mass was unchanged. When you heated the steel wool, you found that the mass changed. Explain.

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



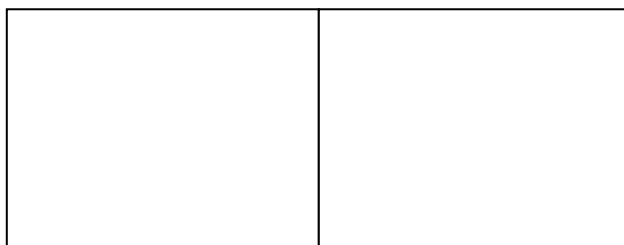
Steel wool-pulled apart
before after



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 atomic level) of the ice and water. Use small circles to represent the H₂O molecules.



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 atomic level) of each of the materials before and after it was dissolved.

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4. Explain in detail why the results of one or more of your experiments might have been different from the “accepted” results.

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