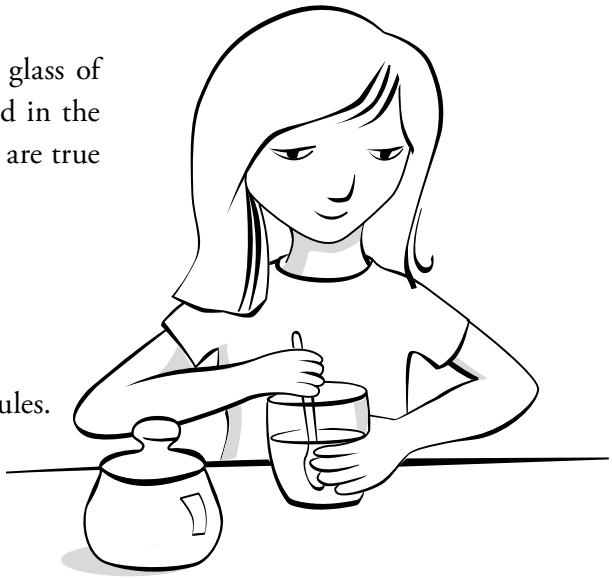
Sugar Water



Deanna stirred a teaspoon of sugar into a glass of warm water. The sugar completely dissolved in the water. Put an X next to the statements that are true about the dissolved sugar.

____ **A** The sugar melts.

____ **B** The sugar loses mass.

____ **C** The sugar turns into water molecules.

____ **D** The sugar forms a mixture with the water.

____ **E** The sugar can be separated from the water.

____ **F** The sugar disappears and no longer exists.

____ **G** The sugar molecules are spread among the water molecules.

____ **H** The sugar breaks down into the individual atoms that make up sugar.

____ **I** The sugar chemically combines with the water to form a new substance.

Explain your thinking. Describe what happens to sugar when it dissolves in water.

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Burning Paper

Carey crumpled a wad of paper and placed it in a large glass jar. He recorded the total mass of the jar (including the air in the jar), the paper, the lid, and a match.

Carey lit the match, quickly put it in the jar, and sealed the lid. Most of the paper burned. He saw smoke in the jar and black ashes left from the paper.

Which sentence best describes the total mass of the jar, lid, paper, and match before burning compared with the total mass after burning?

A The total mass after burning is greater.

B The total mass after burning is less.

C The total mass before and after burning is the same.

Explain your thinking. Describe what happens to the total mass before and after burning the paper.