Name: _____

Period: 1 2 3 4 5 6 7 8

Burning Paper

Is this a **physical** or **chemical** change?

_____

What evidence makes you think so?

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

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 after burning compared with the total mass before 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. _____

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Melting Ice Cubes

Is this a **physical** or **chemical** change?

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What evidence makes you think so?

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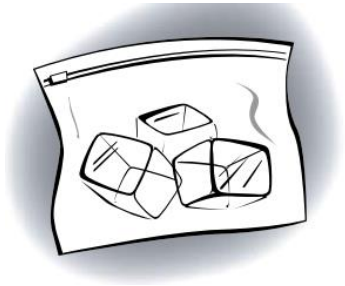

You are having an argument with your friend about what happens to the mass when matter changes from one form to another.

To prove your idea, you seal three ice cubes into a bag and record the mass of the bag of ice. You let the ice cubes melt completely. Ten minutes later you record the mass of the bag, which now has only water in it.

Which of the following best describes the result?

A The mass of the bag of water will be less than the mass of the bag of ice.

B The mass of the bag of water will be more than the mass of the bag of ice.

C The mass of the bag of water will be the same as the mass of the bag of ice.

Explain your thinking. Describe what happens to the total mass before and after melting the ice. _____

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