Name: Block: Date:

Partner’s Name:

1. What substance (wick or wax) is the primary fuel for a burning candle? \_\_\_\_\_\_\_\_\_\_\_\_

What evidence from the experiments supports this?

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2. What is the identity of the "smoke" that is released when a candle is extinguished?

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What evidence from the experiments supports this?

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3. What phase changes take place in the wax when a candle burns?

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What evidence from the experiments supports this?

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4. What is the role of the wick in a burning candle?

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5. The primary elements in a candle are carbon and hydrogen.

a. What happens to the carbon when the candle burns?

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b. What happens to the hydrogen when the candle burns?

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6. Write a balanced chemical equation for the combustion (burning) of candle wax, assuming the formula for the wax is C25H52. (Recall the class discussion about this!)

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7. Write two questions about the burning of a candle that were unanswered in this activity.

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b. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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