Module 2 Quiz

Mark Peever

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$$q = mc\Delta T$$

$$\rho = \frac{m}{V}$$

Name:

- 1. Ezra lights a candle and notices that it gives off light and heat two different kinds of energy. What can we say about the burning candle? Choose all the correct answers:
 - A. Ezra has created electromagnetic energy (light energy)
 - B. Ezra has converted chemical energy into electromagnetic energy
 - C. Ezra has created thermal energy
 - D. Ezra has converted chemical energy into thermal energy
 - E. Ezra has too much time on his hands
- 2. Cu (copper) has a specific heat of $0.3851 \frac{J}{g \cdot ^{\circ}C}$. How much heat is required to increase the temperature of 1.00g of Cu from $50.00^{\circ}C$ to $60.00^{\circ}C$? Answer with correct significant figures. (5)
- 3. Convert the following measurements:
 - (a) how many seconds in $1\mu s$? (1)
 - (b) how many kilograms in 1,000,000 grams? (1)
 - (c) how many centimeters in 375 meters? (1)

This exam has 3 questions for a total of 13 points.