

Specific Heat and Heat Capacity

Name _____ KEY _____ Period _____

1. Calculate the amount of heat needed to increase the temperature of 250 g of water from 20 °C to 46 °C.

$$q = m \times C \times \Delta T$$
$$q = 250 \text{ g} \times 4.18 \text{ J/g}^\circ\text{C} \times 26^\circ\text{C}$$
$$q = 27,170 \text{ J or } 27 \text{ kJ}$$

2. Calculate the specific heat capacity of copper given that 204.75 J of energy raises the temperature of 15 g of copper from 25 °C to 60. °C.

$$q = m \times C \times \Delta T$$
$$C = q/m \times \Delta T$$
$$C = 204.75 \text{ J} / (15 \text{ g} \times 35^\circ\text{C})$$
$$C = 0.39 \text{ J/g}^\circ\text{C}$$

3. 216 J of energy is required to raise the temperature of aluminum from 15 °C to 35 °C. Calculate the mass of aluminum. (Specific heat capacity of aluminum is 0.90 J/g °C).

$$q = m \times C \times \Delta T$$
$$m = q/C \times \Delta T$$
$$m = 216 \text{ J} / (0.90 \text{ J/g}^\circ\text{C} \times 20^\circ\text{C})$$
$$m = 12 \text{ g}$$

4. The initial temperature of 150 g of ethanol was 22 °C. What will be the final temperature of the ethanol if 3240 J was needed to raise the temperature of the ethanol? (Specific heat capacity of ethanol is 2.44 J/g °C).

$$q = m \times C \times \Delta T$$
$$\Delta T = q/m \times C$$
$$\Delta T = 3240 \text{ J} / (150 \text{ g} \times 2.44 \text{ J/g}^\circ\text{C})$$
$$\Delta T = 8.85^\circ\text{C}$$
$$T_{\text{final}} = 22^\circ\text{C} + 8.85^\circ\text{C} = 31^\circ\text{C}$$

5. When 435 J of heat is added to 3.4 g of olive oil at 21 °C, the temperature increases to 85 °C. What is the specific heat of the olive oil?

$$q = m \times C \times \Delta T$$
$$C = q/m \times \Delta T$$
$$C = 435 \text{ J} / (3.4 \text{ g} \times 64^\circ\text{C})$$
$$C = 2.0 \text{ J/g}^\circ\text{C}$$

6. How many kilojoules of heat are absorbed when 1.00 L of water is heated from 18 °C to 85 °C? (Hint: You first need to determine the mass of the water, then calculate q in the requested unit.)

Section 3 Reinforcement Using Heat Answers

J Spring



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mass balance Approach (MBA) is a process for determining the use of chemically recycled or bio-based feedstock in a final product when both recycled and ... BRC 3.9.2 Trace Exercise Sample Procedure to conduct a mass balance check · 1. Select a raw material lot number used in a finished product made within the last 6 months. · 2. Review storage ... UNDERSTANDING VULNERABILITY ASSESSMENT Table 6 provides examples of PRNs for different raw materials. Table 6 Priority ... Mass balance exercises at critical points in the supply chain - the mass ... ISSUE 8 FOOD SAFETY - Frequently Asked Questions - a worked example from the raw material supplier, which ... to conduct a mass balance test every 6 months for each claim or a single mass balance test every. Property & Casualty Insurance Page 1. License Exam Manual. Property & Casualty Insurance. 1st Edition ... Kaplan's. Property and Casualty InsurancePro QBank™. Go to www.kfeducation.com for ... Kaplan Property And Casualty Property and Casualty Insurance Exam Prep Bundle - Includes the South Carolina Property and Casualty Insurance License Exam Manual and the South Carolina ... Property & Casualty Insurance License Exam Prep Prepare, practice, and perform for a variety of state licenses with Kaplan Financial Education's property and casualty prelicensing and exam prep. Insurance Licensing Exam Prep Study Tools View descriptions of Kaplan Financial Education's insurance licensing exam prep study tools. Use ... License Exam Manual (LEM). This comprehensive textbook ... Property and Casualty Insurance License Exam Manual 1st E Property and Casualty Insurance License Exam Manual. Kaplan. Published by Kaplan (2017). ISBN 10: 1475456433 ISBN 13: 9781475456431. New Paperback Quantity: 1. Property and Casualty Insurance License Exam Manual Home Kaplan Property and Casualty Insurance License Exam Manual. Stock Image. Stock Image. Quantity: 12. Property and Casualty Insurance License Exam Manual. 0 ... Insurance Licensing Exam Prep Kaplan can help you earn a variety of state insurance licenses, including Life, Health, Property, Casualty, Adjuster, and Personal Lines. Property and casualty insurance license exam manual ... Property and casualty insurance license exam manual kaplan. Compare our property & casualty insurance licensing packages side-by-side to figure out which one ... Property and Casualty Insurance: License Exam Manual ... Property and Casualty Insurance: License Exam Manual by Kaplan Publishing Staff ; Binding. Paperback ; Weight. 2 lbs ; Accurate description. 4.9 ; Reasonable ...