



Name:

Date:

Student Exploration: Calorimetry Lab

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: calorie, calorimeter, joule, specific heat capacity

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. The Latin word *calor* means "heat," and *meter* comes from the Greek word meaning "to measure." What do you think a **calorimeter** does?

measuring the heat of chemical reactions or physical changes as well as heat capacity

2. Where have you heard the word **calorie** before? What do you think a calorie is?

calorie, a unit of energy or heat variously defined. the calorie was originally defined as the amount of heat required at a pressure of 1 standard atmosphere to raise the temperature of 1 gram of water 1 degree celsius.

Gizmo Warm-up

A calorimeter is an insulated container filled with a liquid, usually water. When a hot object is placed in the calorimeter, heat energy is transferred from the object to the water and the water heats up.

Calorimeters can be used to find a substance's **specific heat capacity**. You will use the *Calorimetry Lab* Gizmo to determine the specific heat capacities of various substances.



1. On the **SIMULATION** pane, select **Copper**. Use the slider to set its **Mass** to 200 g. Set the **Water mass** to 200 g. Check that the **Water temp** is set to 30.0 °C and the copper's **Temp** is 90 °C. Select the **GRAPH** tab, and click **Play** (▶).

- A. What was the **Final temperature** of the copper and the water?
- B. How much did the temperature of the copper change?
- C. How much did the temperature of the water change?

34.96

down 55.04

down 165.04

2. Specific heat capacity can be described as a substance's resistance to temperature changes. Which substance has a greater specific heat capacity, copper or water? Explain.

Calorimetry Lab Answers

Huangqi Zhang



Calorimetry Lab Answers:

Unveiling the Power of Verbal Beauty: An Emotional Sojourn through **Calorimetry Lab Answers**

In a global inundated with displays and the cacophony of fast transmission, the profound power and mental resonance of verbal art usually fade into obscurity, eclipsed by the constant assault of noise and distractions. Yet, nestled within the musical pages of **Calorimetry Lab Answers**, a charming work of fictional beauty that impulses with natural feelings, lies an unforgettable journey waiting to be embarked upon. Composed with a virtuoso wordsmith, that mesmerizing opus courses readers on a mental odyssey, gently revealing the latent possible and profound impact stuck within the intricate web of language. Within the heart-wrenching expanse of this evocative evaluation, we can embark upon an introspective exploration of the book is central styles, dissect its charming publishing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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