



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.)

- 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

- 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.



- 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** (▶).

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

34.96

down 55.04

down 165.04

- 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

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Calorimetry Lab Answers:

Whispering the Techniques of Language: An Emotional Quest through **Calorimetry Lab Answers**

In a digitally-driven world where monitors reign great and quick conversation drowns out the subtleties of language, the profound strategies and emotional subtleties concealed within words usually go unheard. However, nestled within the pages of **Calorimetry Lab Answers** a captivating fictional treasure sporting with organic thoughts, lies an extraordinary journey waiting to be undertaken. Penned by an experienced wordsmith, that charming opus invites viewers on an introspective journey, lightly unraveling the veiled truths and profound affect resonating within the very fabric of every word. Within the mental depths of the moving review, we shall embark upon a genuine exploration of the book is core styles, dissect its interesting writing model, and yield to the powerful resonance it evokes heavy within the recesses of readers hearts.

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