

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?

To measure the heat of chemical reactions or physical changes and heat capacity

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

A calorie is an energy or heat unit. It is defined as the heat needed at a pressure of 1 standard atmosphere to increase the temperature of 1 gram of water to 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

downwards 55.04

downwards 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.

Water has a greater specific heat capacity because it is less inclined to temperature fluctuations. The temperature of Copper is 60 degrees. Likewise, the mass of water in which it was placed would be cooled to 23.4 degrees Celsius.

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L Towne

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'L Towne' text.

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