

Name: _____ Date: _____

Student Exploration: Calorimetry Lab

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? **Measures heat energy in an object**
2. Where have you heard the word calorie before? What do you think a calorie is? **A measure of heat energy**

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? **34.96 °C**
 - B. How much did the temperature of the copper change? **-55.04 °C**
 - C. How much did the temperature of the water change? **4.96 °C**
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, because the temperature of the water did not change that much. It would have taken more energy to raise the temperature of the water any higher than it already is.**

Activity A:

Heat transfer

Get the Gizmo ready:

Click Reset.

Question: What factors determine how heat energy transfers between objects?

1. **Predict:** In the Gizmo warm-up, you saw how 200 g of 90 °C copper transfers heat to 200 g of 30.0 °C water.
 - A. How do you think increasing the water's mass would affect the final temperature? **It would lower the temperature of the water a little bit**
 - B. How do you think decreasing the copper's mass would affect the final temperature? **It would increase the temperature of the water a little bit**
 - C. How do you think increasing or decreasing the copper's initial temperature would affect the final temperature? **There would be a slight raise in temperature**

Answer Key Explore Learning Calorimetry Lab

Jerry D. Wilson

Answer Key Explore Learning Calorimetry Lab:

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