

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? **The calorimeter is an instrument used to measure heat or heat energy and any changes in it.**
2. Where have you heard the word **calorie** before? What do you think a calorie is? **When I hear calorie I think it's about losing weight with your foods. I think a calorie is an ingredient, or type of energy. I also know that people sometimes tend to worry about how much calories they intake, and whatnot. And I also know that you can burn calories, which can suggest that it is a type of 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. How much did the temperature of the water change? **4.96**

Student Exploration Calorimetry Lab Answer Key

A Loxley



Student Exploration Calorimetry Lab Answer Key:

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Government Reports Announcements & Index ,1974 Science Citation Index ,1992 Vols for 1964 have guides and journal lists *Conference Papers Index* ,1987

Adopting the Track of Term: An Psychological Symphony within **Student Exploration Calorimetry Lab Answer Key**

In some sort of taken by screens and the ceaseless chatter of immediate transmission, the melodic beauty and emotional symphony developed by the written term usually diminish into the backdrop, eclipsed by the constant noise and interruptions that permeate our lives. But, situated within the pages of **Student Exploration Calorimetry Lab Answer Key** a charming fictional value filled with organic feelings, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, this charming masterpiece conducts viewers on a psychological trip, skillfully unraveling the hidden tunes and profound impact resonating within each cautiously constructed phrase. Within the depths of the emotional analysis, we will explore the book is key harmonies, analyze its enthralling publishing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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