

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**

Answers To Explore Learning Calorimetry Lab Gizmo

J Dewey



Answers To Explore Learning Calorimetry Lab Gizmo:

Unveiling the Magic of Words: A Overview of "**Answers To Explore Learning Calorimetry Lab Gizmo**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Answers To Explore Learning Calorimetry Lab Gizmo**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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