

Activity C:
Calculating
specific heat

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Introduction: The specific heat capacity of a substance is the amount of energy needed to change the temperature of that substance by 1 °C. Specific heat capacity can be calculated using the following equation:
$$q = mc\Delta T$$

In the equation q represents the amount of heat energy gained or lost (in **joules**), m is the mass of the substance (in grams), c is the specific heat capacity of the substance (in J/g °C), and ΔT is the temperature change of the substance (in °C).

Goal: Calculate the specific heat capacities of copper, granite, lead, and ice.

- Solve:** When you mix two substances, the heat gained by one substance is equal to the heat lost by the other substance. Suppose you place 125 g of aluminum in a calorimeter with 1,000 g of water. The water changes temperature by 2 °C and the aluminum changes temperature by -74.95 °C.

- Water has a known specific heat capacity of 4.184 J/g °C. Use the specific heat equation to find out how much heat energy the water gained (q).

$$\Delta T Q = 1000 \times 4.18 \times 2Q = 8360 \text{ J} \quad 8360 \text{ J}; 8.4 \text{ kJ}$$

- Assume that the heat energy gained by the water is equal to the heat energy lost by the aluminum. Use the specific heat equation to solve for the specific heat of aluminum. (Hint: Because heat energy is lost, the value of q is negative.)

0.893

Aluminum's accepted specific heat value is 0.900 J/g °C. Use this value to check your work.

- Calculate:** Use the Gizmo to mix 200 g of copper at 100 °C with 1,000 g of water at 20 °C.

- What is the final temperature? 21.42
- Calculate the temperature change of each substance by subtracting the initial temperature from the final temperature.

$\Delta T_{\text{water}} =$ 1.49

$\Delta T_{\text{copper}} =$ 20

- How much heat energy (q) did the water gain? 18
- Now solve for the specific heat (c) of copper; it is 20°C

Gizmo Answer Key Calorimetry Lab

CH Cherryholmes

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Gizmo Answer Key Calorimetry Lab:

Unveiling the Magic of Words: A Report on "**Gizmo Answer Key Calorimetry Lab**"

In a world 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 "**Gizmo Answer Key Calorimetry Lab**," a mesmerizing literary masterpiece penned by way of 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 affect the souls of its readers.

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