

**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  $\Delta T$  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 Calorimetry Lab Answer Key

**Lingsheng Yao**

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 Calorimetry Lab Answer Key:**

The book delves into Gizmo Calorimetry Lab Answer Key. Gizmo Calorimetry Lab Answer Key is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Gizmo Calorimetry Lab Answer Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Gizmo Calorimetry Lab Answer Key
    - Chapter 2: Essential Elements of Gizmo Calorimetry Lab Answer Key
    - Chapter 3: Gizmo Calorimetry Lab Answer Key in Everyday Life
    - Chapter 4: Gizmo Calorimetry Lab Answer Key in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, this book will provide an overview of Gizmo Calorimetry Lab Answer Key. This chapter will explore what Gizmo Calorimetry Lab Answer Key is, why Gizmo Calorimetry Lab Answer Key is vital, and how to effectively learn about Gizmo Calorimetry Lab Answer Key.
  3. In chapter 2, this book will delve into the foundational concepts of Gizmo Calorimetry Lab Answer Key. This chapter will elucidate the essential principles that must be understood to grasp Gizmo Calorimetry Lab Answer Key in its entirety.
  4. In chapter 3, this book will examine the practical applications of Gizmo Calorimetry Lab Answer Key in daily life. This chapter will showcase real-world examples of how Gizmo Calorimetry Lab Answer Key can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Gizmo Calorimetry Lab Answer Key in specific contexts. This chapter will explore how Gizmo Calorimetry Lab Answer Key is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Gizmo Calorimetry Lab Answer Key. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Gizmo Calorimetry Lab Answer Key.

<https://staging.conocer.cide.edu/results/uploaded-files/default.aspx/environmental%20stress.pdf>

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
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