

**Activity C:**  
**Calculating  
specific heat**

Get the Gizmo ready:  
• Click **Reset**.



**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.

1. 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.

- A. 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 ( $q$ ).

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

- B. 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.

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

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

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

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

- C. How much heat energy ( $q$ ) did the water gain?
- D. Now solve for the specific heat ( $c$ ) of copper;

# Calorimetry Lab Answers

**O García**



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SAM-TR., 1967-03 **Instructor's Guide for Introductory Chemistry in the Laboratory** James F. Hall, 1996

*Report (USAF School of Aerospace Medicine). [25-63], [1967], 1967* **Techniques and Concepts of High-Energy**

**Physics VI** Thomas Ferbel, 2012-12-06 The sixth Advanced Study Institute ASI on Techniques and Concepts of High Energy Physics was held at the Club St Croix in St Croix U S Virgin Islands The ASI brought together a total of 70 participants from 21 different countries Despite logistical problems caused by hurricane Hugo it was a very successful meeting Hugo s destruction did little to dampen the dedication of the inspiring lecturers and the exceptional enthusiasm of the student body nevertheless the immense damage caused to the beautiful island was very saddening indeed The primary support for the meeting was again provided by the Scientific Affairs Division of NATO The ASI was cosponsored by the U S Department of Energy by Fermilab by the National Science Foundation and by the University of Rochester A special contribution from the Oliver S and Jennie R Donaldson Charitable Trust provided an important degree of flexibility as well as support for worthy students from developing countries As in the case of the previous ASIs the scientific program was designed for advanced graduate students and recent PhD recipients in experimental particle physics The present volume of lectures should complement the material published in the first five ASIs and prove to be of value to a wider audience of physicists

*An Evaluative Report on the National Measurement Laboratory, National Bureau of Standards*, 1987 Guidelines for Process

Safety in Outsourced Manufacturing CCPS (Center for Chemical Process Safety), 2026-04-13 This book contains guidelines for clients who outsource manufacturing brokers who aid in outsourcing and manufacturers who develop and or execute outsourced manufacturing on how to improve process safety performance by understanding and managing the risk associated with the process and learning from experience of outsourced operations This book focuses on the outsourced manufacturing process and roles the affected parties assume It applies the elements of risk based process safety to minimize the potential of process safety events The book illustrates how the twenty Elements of the CCPS Risk Based Process Safety RBPS management approach can be used as the framework for a consistent structured method to safely execute outsourced manufacturing Additionally ten case studies are provided detailing how breakdowns in the transfer of information in the various outsourced manufacturing process steps and failure for affected parties to understand their role in the process have led to process safety incidents

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