



Name:

Date:

## Student Exploration: Calorimetry Lab

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**Vocabulary:** calorie, calorimeter, joule, specific heat capacity

**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

- The Latin word *calor* means "heat," and *meter* comes from the Greek word meaning "to measure." What do you think a **calorimeter** does?

measuring the heat of chemical reactions or physical changes as well as heat capacity

- Where have you heard the word **calorie** before? What do you think a calorie is?

calorie, a unit of energy or heat variously defined. the calorie was originally defined as the amount of heat required at a pressure of 1 standard atmosphere to raise the temperature of 1 gram of water 1 degree celsius.

### 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.



- 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** (▶).

- What was the **Final temperature** of the copper and the water?
- How much did the temperature of the copper change?
- How much did the temperature of the water change?

34.96

down 55.04

down 165.04

- Specific heat capacity can be described as a substance's resistance to temperature changes. Which substance has a greater specific heat capacity, copper or water? Explain.

# Calorimetry Lab Answers

**Marco Casella**



## Calorimetry Lab Answers:

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 *General Chemistry* Ralph H. Petrucci,2007 General Chemistry

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