

## Student Exploration: Calorimetry Lab

### 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** (▶).

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?

$$\begin{aligned} T &= T_f - T_i \\ &= (34.96^\circ\text{C} - 90^\circ\text{C}) \\ &= -55.04^\circ\text{C} \end{aligned}$$

The temperature of the copper changed about 55°C.

C. How much did the temperature of the water change?

$$\begin{aligned} T &= T_f - T_i \\ &= (34.96^\circ\text{C} - 30^\circ\text{C}) \\ &= 4.96^\circ\text{C} \end{aligned}$$

The temperature of the water changed about 5°C.

- 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.

$$\begin{aligned} c_w &= 4.184 \text{ J/g} \\ c_c &= 0.385 \text{ J/g} \end{aligned}$$

Water has a greater specific heat capacity.

### Activity A:

#### Heat transfer

#### Get the Gizmo ready:

- Click **Reset** (↺).



**Question:** What factors determine how heat energy transfers between objects?

- Predict: In the Gizmo warm-up, you saw how 200 g of 90 °C copper transfers heat to 200 g of 30.0 °C water.

A. How do you think increasing the water's mass would affect the final temperature?

# Answers For Calorimetry Gizmo

**Ying-Ying Zheng**

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.

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## **Table of Contents Answers For Calorimetry Gizmo**

1. Understanding the eBook Answers For Calorimetry Gizmo
  - The Rise of Digital Reading Answers For Calorimetry Gizmo
  - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Calorimetry Gizmo
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Answers For Calorimetry Gizmo
  - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Calorimetry Gizmo
  - Personalized Recommendations
  - Answers For Calorimetry Gizmo User Reviews and Ratings
  - Answers For Calorimetry Gizmo and Bestseller Lists
5. Accessing Answers For Calorimetry Gizmo Free and Paid eBooks

- Answers For Calorimetry Gizmo Public Domain eBooks
- Answers For Calorimetry Gizmo eBook Subscription Services
- Answers For Calorimetry Gizmo Budget-Friendly Options
- 6. Navigating Answers For Calorimetry Gizmo eBook Formats
  - ePub, PDF, MOBI, and More
  - Answers For Calorimetry Gizmo Compatibility with Devices
  - Answers For Calorimetry Gizmo Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Answers For Calorimetry Gizmo
  - Highlighting and Note-Taking Answers For Calorimetry Gizmo
  - Interactive Elements Answers For Calorimetry Gizmo
- 8. Staying Engaged with Answers For Calorimetry Gizmo
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Answers For Calorimetry Gizmo
- 9. Balancing eBooks and Physical Books Answers For Calorimetry Gizmo
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Answers For Calorimetry Gizmo
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Answers For Calorimetry Gizmo
  - Setting Reading Goals Answers For Calorimetry Gizmo
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers For Calorimetry Gizmo
  - Fact-Checking eBook Content of Answers For Calorimetry Gizmo
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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