

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** ().

- What was the **Final temperature** of the copper and the water?

34.96°C

- 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.

- 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.

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

Answers For Calorimetry Gizmo

M Planty

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'M Planty' text.

Answers For Calorimetry Gizmo:

Calorimetry Stefan Mathias Sarge, Günther W. H. Höhne, Wolfgang Hemminger, 2014-02-25 Clearly divided into three parts this practical book begins by dealing with all fundamental aspects of calorimetry The second part looks at the equipment used and new developments The third and final section provides measurement guidelines in order to obtain the best results The result is optimized knowledge for users of this technique supplemented with practical tips and tricks

Calorimetry, 2016 Calorimetry ... American Meter Company, 1914 Calorimetry W. Hemminger, Günther Höhne, 1984 **A convection-scope & calorimeter** Alfred Rosling Bennett, 1897 Calorimetry Frank H. Bates, 1902

Application of Calorimetry in Life Sciences I. Lamprecht, 1977 *Animal and Human Calorimetry* J. A. McLean, G. Tobin, 2007-12-03 This volume provides a comprehensive survey of the theory practice and techniques of calorimetry as applied to the study of energy metabolism in humans and animals Calorimetry is used to estimate nutritional requirements of man and farm livestock and to evaluate different foods It is also a powerful tool used in research into fundamental nutritional and physiological life processes and in the evaluation of stresses imposed by abnormal or severe environments It is currently being applied in various branches of medical research and can be used as a diagnostic tool in hospitals for investigation of metabolic disorders The authors discuss both direct calorimetry which measures heat loss directly and indirect calorimetry where heat loss is inferred by measurement of some of the chemical byproducts of metabolism In addition guidance is provided to the instrumentation technical problems and precautions necessary to obtain accurate calorimetric measurements

The Modern Calorimeter Walter Porter White, 1928 **Calorimetry in Medicine** William Sharp McCann, 1924

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web 2 they can be used by the teacher to assess understanding of the activity or experiment or can be compared with the results of other students 3 line graph should be going up and to the right 4 time 5 mass of product 6 the mass of product increases with time 7 model 8 theory 9 law 10 an early model held that earth was the center of

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web in unit 1 of science students will develop a better understanding of the vast subject of science students gain scientific knowledge by observing the natural and constructed world

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web study with quizlet and memorize flashcards containing terms like what are the following steps of 1 make an observation 2 ask a question 3 form a hypothesis or testable explanation 4 make a prediction based on the hypothesis 5 test the prediction 5 iterate use the results to make new hypotheses or predictions what is a controlled

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web monday sept 10 tuesday sept 11 agenda 1 finalize folder for unit 1 folder should be ready to hand in wednesday start of

class 2 study for test 6 steps of scientific method 4 parts of a controlled experiment data analysis data display