

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 ΔT 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

Explore Learning Calorimetry Lab Answer Key

Karin Nielsen-Saines



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The Wingfield apartment is in the rear of the building, one of those vast hive-like conglomerations of cellular living-units that flower as ... Tennessee Williams - The Glass Menagerie (Scene 7) A moment after the curtain rises, the lights in both rooms flicker and go out.] JIM: Hey, there, Mr Light Bulb ! [AMANDA laughs nervously. LEGEND: 'SUSPENSION ... The Glass Menagerie: Acting Edition: Tennessee Williams A new introduction by the editor of The Tennessee Williams Annual Review, Robert Bray, reappraises the play more than half a century after it won the New York ... Living With Art, 10th Edition by Getlein, Mark The writing is clear and lighthearted, making the concepts interesting and easy to understand. This is an extensive text, giving a nice introduction to art ... Living With Art, 10th Edition - Getlein, Mark: 9780073379258 Getlein, Mark ; Publisher: McGraw-Hill Education, 2012 ; Living with Art provides the foundation for a life-long appreciation of art, as well as critical thinking ... Living With Art 10th edition 9780073379258 0073379255 Living With Art10th edition · RentFrom \$12.99 · Rent\$12.99 · BuyFrom \$12.49. 21-day refund guarantee and more · Buy\$12.49 · Book Details · Publisher Description. Living with Art by Getlein, Mark Living With Art, 10th Edition. Mark Getlein. 4.3 out of 5 stars 569. Paperback. 69 offers from \$5.64 · Living with Art. Living With Art, 10th Edition Living With Art, 10th Edition (ISBN-13: 9780073379258 and ISBN-10: 0073379255), written by authors Mark Getlein, was published by McGraw-Hill Education in ... Living with art 10th 11th or 12th edition PDF please I have ... Living with art 10th 11th or 12th edition PDF please I have to to have it by today someone help · Make requests for textbooks and receive free ... Living with Art Comprehensive online learning platform + unbound loose-leaf print text package ... This is his fourth edition as author of Living with Art. Kelly Donahue ... Living With Art 10th Edition by Mark Getlein for sale online Find many great new & used options and get the best deals for Living With Art 10th Edition by Mark Getlein at the best online prices at eBay! Living With Art 10th Edition by Mark Get.pdf This Living With Art, 10th Edition having great arrangement in word and layout, so you will not really feel uninterested in reading. GETLEIN | Get Textbooks Living with Art Tenth Addition(10th Edition) (10th) by Mark Getlein Loose Leaf, 572 Pages, Published 2013 by Mcgraw-Hill ISBN-13: 978-0-07-764921-0, ISBN: 0 ...