

Calorimetry Worksheet:

$$q = mc\Delta T \text{ or } -q = q \text{ or } -mc\Delta T = mc\Delta T$$

1. Determine the amount of heat energy in joules required to raise the temperature of 7.40g of water from 29.0°C to 46.0°C.

2. Calculate the joules of energy required to heat 454.3g of water from 5.4°C to 98.6°C.

3. What quantity of energy (in J and cal) is required to heat a piece of iron weighing 1.31 g from 25.0°C to 46.0°C?

4. A 5.63g sample of solid gold is heated from 21.0°C to 32.0°C. How much energy, (in J and cal) is required?

5. A 1.60g sample of a metal that has the appearance of gold requires 5.8J of energy to change its temperature from 23.0°C to 41°C. Is the metal pure gold?

6. A 2.80g sample of a pure metal requires 10.0J of energy to change its temperature 15.0°C. What is this metal?

7. How much heat energy is required to raise the temperature of a 30.0g sample of aluminum from 15.0°C to 35°C?

8. What would be the temperature of a 24.2g sample of carbon if 575.6J of heat energy was applied?

Name:

Specific Heat Capacities of Common Substances:

Substance	J/g °C
Water (l)	4.184
Water (s)	2.03
Water (g)	2.0
Aluminum (s)	0.89
Iron (s)	0.45
Mercury (l)	0.14
Carbon (s)	0.71
Silver (s)	0.24
Gold (s)	0.13

4.184 Joules = 1 calorie

Calorimetry Worksheet 1 Answers

Elissa Huddart



Calorimetry Worksheet 1 Answers

Ecology, a Systems Approach Prassede Calabi, 1998 **Principles of Modern Chemistry** David W. Oxtoby, 1998-07-01
PRINCIPLES OF MODERN CHEMISTRY has dominated the honors and high mainstream general chemistry courses and is considered the standard for the course. The fifth edition is a substantial revision that maintains the rigor of previous editions but reflects the exciting modern developments taking place in chemistry today. Authors David W. Oxtoby and H. P. Gillis provide a unique approach to learning chemical principles that emphasizes the total scientific process from observation to application, placing general chemistry into a complete perspective for serious-minded science and engineering students. Chemical principles are illustrated by the use of modern materials comparable to equipment found in the scientific industry. Students are therefore exposed to chemistry and its applications beyond the classroom. This text is perfect for those instructors who are looking for a more advanced general chemistry textbook.

University Physics Samuel J. Ling, Jeff Sanny, William Moebs, 2017-12-19
University Physics is designed for the two or three semester calculus-based physics course. The text has been developed to meet the scope and sequence of most university physics courses and provides a foundation for a career in mathematics, science, or engineering. The book provides an important opportunity for students to learn the core concepts of physics and understand how those concepts apply to their lives and to the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes for flexibility and efficiency.

Coverage and Scope
Our University Physics textbook adheres to the scope and sequence of most two and three semester physics courses nationwide. We have worked to make physics interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. With this objective in mind, the content of this textbook has been developed and arranged to provide a logical progression from fundamental to more advanced concepts, building upon what students have already learned and emphasizing connections between topics and between theory and applications. The goal of each section is to enable students not just to recognize concepts but to work with them in ways that will be useful in later courses and future careers. The organization and pedagogical features were developed and vetted with feedback from science educators dedicated to the project.

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Chapter 14 Inductance
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Chapter 16 Electromagnetic Waves

Chemistry 2e Paul Flowers, Richard Langely, William R. Robinson, Klaus Hellmut Theopold, 2019-02-14
Chemistry 2e is designed to meet the scope and sequence requirements of the two semester general

chemistry course The textbook provides an important opportunity for students to learn the core concepts of chemistry and understand how those concepts apply to their lives and the world around them The book also includes a number of innovative features including interactive exercises and real world applications designed to enhance student learning The second edition has been revised to incorporate clearer more current and more dynamic explanations while maintaining the same organization as the first edition Substantial improvements have been made in the figures illustrations and example exercises that support the text narrative Changes made in Chemistry 2e are described in the preface to help instructors transition to the second edition

Pearson Physics Queensland 11 Skills and Assessment Book Doug Bail,2018-09-14 Introducing the Pearson Physics Queensland 11 Skills and Assessment Book Fully aligned to the new QCE 2019 Syllabus Write in Skills and Assessment Book written to support teaching and learning across all requirements of the new Syllabus providing practice application and consolidation of learning Opportunities to apply and practice performing calculations and using algorithms are integrated throughout worksheets practical activities and question sets All activities are mapped from the Student Book at the recommend point of engagement in the teaching program making integration of practice and rich learning activities a seamless inclusion Developed by highly experienced and expert author teams with lead Queensland specialists who have a working understand what teachers are looking for to support working with a new syllabus

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The textbook provides an important opportunity for students to learn the core concepts of chemistry and understand how those concepts apply to their lives and the world around them The book also includes a number of innovative features including interactive exercises and real world applications designed to enhance student learning The second edition has been revised to incorporate clearer more current and more dynamic explanations while maintaining the same organization as the first edition Substantial improvements have been made in the figures illustrations and example exercises that support the text narrative Changes made in Chemistry 2e are described in the preface to help instructors transition to the second edition

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Chemistry Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998 University Physics Samuel J. Ling, Jeff Sanny, William Moebs, 2016-08 University Physics is a three volume collection that meets the scope and sequence requirements for two and three semester calculus based physics courses Volume 1 covers mechanics sound oscillations and waves This textbook emphasizes connections between theory and application making physics concepts interesting and accessible to students while maintaining the mathematical rigor inherent in the subject Frequent strong examples focus on how to approach a problem how to work with the equations and how to check and generalize the result Open Textbook Library *Nutrition Diagnosis* American Dietetic Association, 2006 **Selected Exercises in Particle and Nuclear**

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