

CONCEPTUAL *Physics* PRACTICE PAGE

Chapter 17 Change of Phase Ice, Water, and Steam

All matter can exist in the solid, liquid, or gaseous phases. The solid phase normally exists at relatively low temperatures, the liquid phase at higher temperatures, and the gaseous phase at still higher temperatures. Water is the most common example, not only because of its abundance but also because the temperatures for all three phases are common. Study "Energy and Changes of Phase" in your textbook and then answer the following:

1. How many calories are needed to change 1 gram of 0°C ice to water?



2. How many calories are needed to change the temperature of 1 gram of water by 1°C ?



3. How many calories are needed to melt 1 gram of 0°C ice and turn it to water at a room temperature of 23°C ?



4. A 50-gram sample of ice at 0°C is placed in a glass beaker that contains 200 g of water at 20°C .



- a. How much heat is needed to melt the ice?

- b. By how much would the temperature of the water change if it gave up this much heat to the ice?

- c. What will be the final temperature of the mixture? (Disregard any heat absorbed by the glass or given off by the surrounding air.)

5. How many calories are needed to change 1 gram of 100°C boiling water to 100°C steam?



Conceptual Physics Chapter 17 Answers

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Conceptual Physics Chapter 17 Answers:

Physics, Volume One: Chapters 1-17 John D. Cutnell, Kenneth W. Johnson, 2014-12-15 Cutnell and Johnson has been the 1 text in the algebra based physics market for almost 20 years The 10th edition brings on new co authors David Young and Shane Stadler both out of LSU The Cutnell offering now includes enhanced features and functionality The authors have been extensively involved in the creation and adaptation of valuable resources for the text This edition includes chapters 1 17

Physics for Scientists and Engineers Paul A. Tipler, Gene Mosca, 2007-05 The Sixth Edition of Physics for Scientists and Engineers offers a completely integrated text and media solution that will help students learn most effectively and will enable professors to customize their classrooms so that they teach most efficiently The text includes a new strategic problem solving approach an integrated Math Tutorial and new tools to improve conceptual understanding To simplify the review and use of the text Physics for Scientists and Engineers is available in these versions Volume 1 Mechanics Oscillations and Waves Thermodynamics Chapters 1 20 R 1 4292 0132 0 Volume 2 Electricity and Magnetism Light Chapters 21 33 1 4292 0133 9 Volume 3 Elementary Modern Physics Chapters 34 41 1 4292 0134 7 Standard Version Chapters 1 33 R 1 4292 0124 X Extended Version Chapters 1 41 R 0 7167 8964 7

Instructor's Manual [to Accompany] Conceptual Physics, Eighth Ed Paul G. Hewitt, 1998 Conceptual Physics Tenth Edition helps readers connect physics to their everyday experiences and the world around them with additional help on solving more mathematical problems Hewitt's text is famous for engaging readers with analogies and imagery from real world situations that build a strong conceptual understanding of physical principles ranging from classical mechanics to modern physics With this strong foundation readers are better equipped to understand the equations and formulas of physics and motivated to explore the thought provoking exercises and fun projects in each chapter Included in the package is the workbook Mechanics Properties of Matter Heat Sound Electricity and Magnetism Light Atomic and Nuclear Physics Relativity For all readers interested in conceptual physics **Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science**, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction *Conceptual Physics Problem Solving Exercises in Physics* Se Jennifer Bond Hickman, 1998-04-03 [Energy, the Subtle Concept](#) Jennifer Coopersmith, 2015 This book explains the idea of energy by tracing the story of its discovery from Galileo through to Einstein It explains the physics using the minimum of mathematics presenting both a gripping historical narrative and a fascinating introduction to an elusive physical concept *Development of Professional Expertise* K. Anders Ericsson, 2009-06-22 Professionals such as medical doctors aeroplane pilots lawyers and technical specialists find that some of their peers have reached high levels of achievement that are difficult to measure

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Physics John D. Cutnell,2004 University Physics Hugh D. Young,Roger A. Freedman,2000 This work aims to enable students to develop physical intuition and strong problem solving skills In addition it points out the conceptual and computational pitfalls that commonly plague beginner physics students

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