

Conceptual Physics  
Chapter 17: The Atomic Nature of Matter  
Lab 17.2: Building an Atom (PHET simulation)



**PART I: ATOM SCREEN**

- Go to the website: [phet.colorado.edu](http://phet.colorado.edu). Click on HTML5 simulations on top right of screen and choose the Build an Atom simulation (<http://phet.colorado.edu/en/simulation/build-an-atom>)
- Explore the Build an Atom simulation with your group. As you explore, talk about what you find. List two things your group observed in the simulation.
  - 
  -
- Click on the + sign for each of the boxes (element name, net charge and mass number) to view changes as you change the number of particles in the atom.
- What particle(s) are found in the center of the atom? \_\_\_\_\_
- Play until you discover which **p**article(s) determine(s) the name of the **e**lement you build. \_\_\_\_\_
- What is the name of the following atoms?
  - An atom with 3 protons and 4 neutrons: \_\_\_\_\_
  - An atom with 2 protons and 4 neutrons: \_\_\_\_\_
  - An atom with 4 protons and 4 neutrons: \_\_\_\_\_
- Play with the simulation to discover which particles affect the **charge** of an atom or ion. \_\_\_\_\_
- Fill in the blanks below to show your results:
  - Neutral atoms have \_\_\_\_\_ the same number of \_\_\_\_\_ protons and electrons.
  - Positive ions have \_\_\_\_\_ protons than electrons.
  - Negative ions have \_\_\_\_\_ protons than electrons.
- Develop a relationship (in the form of a single sentence or equation) that can predict the charge based on the number and types of particle. \_\_\_\_\_
- Play with the simulation to discover what affects the **mass** number of your atom or ion. \_\_\_\_\_
  - What is a rule for determining the mass number of an atom or ion?
- Practice applying your understanding by playing 1<sup>st</sup> and 2<sup>nd</sup> levels on the game screen.

# Conceptual Physics Chapter 17 Answers

**John D. Cutnell**



## 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** 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 objectively In order to understand to what extent it is possible to learn from these expert performers for the purpose of helping others improve their performance we first need to reproduce and measure this performance This book is designed to provide the first comprehensive overview of research on the acquisition and training of professional performance as measured by objective methods rather than by subjective ratings by supervisors In this collection of articles the world s foremost experts discuss methods for assessing the experts knowledge and review our knowledge on how we can measure professional performance and design training environments that permit beginning and experienced professionals to develop and maintain their high levels of performance using examples from a wide range of professional domains

**Conceptual Physics** ,1985 Rev ed of Conceptual physics a new introduction to your environment 4th ed 1981

*Teacher's Manual and Resource Guide for Exploring the Sciences* Herbert Drapkin,1964     Conceptual Physics Paul G. Hewitt,2000-06     **Conceptual Physics--a New Introduction to Your Environment** ,1981     **International Handbook of Research on Conceptual Change** Stella Vosniadou,2013-07-18 Conceptual change research investigates the processes through which learners substantially revise prior knowledge and acquire new concepts Tracing its heritage to paradigms and paradigm shifts made famous by Thomas Kuhn conceptual change research focuses on understanding and explaining learning of the most the most difficult and counter intuitive concepts Now in its second edition the International Handbook of Research on Conceptual Change provides a comprehensive review of the conceptual change movement and of the impressive research it has spawned on students difficulties in learning In thirty one new and updated chapters organized thematically and introduced by Stella Vosniadou this volume brings together detailed discussions of key theoretical and methodological issues the roots of conceptual change research and mechanisms of conceptual change and learner characteristics Combined with chapters that describe conceptual change research in the fields of physics astronomy biology medicine and health and history this handbook presents writings on interdisciplinary topics written for researchers and students across fields

Physics Art Hobson,2003 Resource added for the Physics 10 805 150 courses     **Conceptual Physical Science** Paul G. Hewitt,John Suchocki,Leslie A. Hewitt,2004 Conceptual Physical Science Third Edition takes learning physical science to a new level by combining Hewitt s leading conceptual approach and friendly writing style in a new edition that provides stronger integration of the sciences more quantitative coverage and a wealth of new media resources to help professors in class and students out of class The book s consistent high quality coverage includes five new chapters on chemistry astronomy and earth science for an even more balanced approach to physical science New Looking Forward and Looking Back boxes connect themes and concepts throughout the book helping students see the big picture More computational coverage eg Figuring Physical Science in chapter calculation allows students to practice the quantitative skills they need to master the concepts of physical science and be able to apply their knowledge Looking Forward and Looking Back boxes in every chapter connect themes and concepts throughout the book helping students see the big picture of physical science

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Physics for Scientists & Engineers Douglas C. Giancoli,2000 For the calculus based General Physics course primarily taken by engineers and science majors including physics majors This long awaited and extensive revision maintains Giancoli s reputation for creating carefully crafted highly accurate and precise physics texts Physics for Scientists and Engineers combines outstanding pedagogy with a clear and direct narrative and applications that draw the student into the physics The new edition also features an unrivaled suite of media and on line resources that enhance the understanding of physics

**Fundamental Laws of Physics** Frank Woodbridge Constant,1963 *Principles of Physics* Raymond A. Serway,John W. Jewett,2002 This successful text was the first to address the latest trends in the market as suggested by the Introductory University Physics Project IUPP guidelines PRINCIPLES OF PHYSICS features a concise approach to traditional topics an early introduction to modern physics and the integration of contemporary topics throughout the text In addition to a streamlined presentation it also encourages analytical reasoning and a conceptual understanding of physics through contemporary applications and critical thinking exercises This text represents an evolutionary approach rather than a revolutionary approach This third edition contains many new pedagogical features most notably a contextual approach to enhance motivation an increased emphasis on avoiding misconceptions through the inclusion of Pitfall Preventions and a problem solving strategy that uses a modeling approach

*The Physics of Everyday Phenomena* W. Thomas Griffith,1992

*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 prblem solving skills In addition it points out the conceptual and computational pitfalls that commonly plague beginner physics students

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