

Physics Concepts Study Guide

Distance vs. Displacement

- Distance is the total length of travel
 - Measured in meters
- Displacement is the change in position with direction
 - Measured in meters
 - Displacement = final position - initial position
 - $\Delta X = X_f - X_i$



Speed and Velocity

- Average Speed is the total distance over time
 - o Measured in meters per second (m/s)
- Average Velocity is the displacement over total time
 - o Measured in meters per second (m/s)
 - o $V_{avg} = \Delta X / \Delta t = (X_f - X_i) / (t_f - t_i)$
- Instantaneous Velocity is the displacement over time
 - o The velocity at a certain instant of time
 - o Measured in meters per second (m/s)
- Note: When velocity is constant, the average velocity is equal to the instantaneous velocity at any time.

Acceleration

- Average acceleration is the rate of change of velocity with time
 - o Measured in m/s²
 - o $A_{avg} = \Delta V / \Delta t = (V_f - V_i) / (t_f - t_i)$
- Instantaneous Acceleration is the velocity per time
 - o The acceleration at a certain instant of time
 - o Measured in m/s²
- Does not depend on mass

Variations of equations:

$$V_{avg} = \frac{1}{2} (V_i + V_f) \qquad V_f = V_i + at \text{ (when } t_i = 0)$$

$$\Delta X = V_i t + \frac{1}{2} at^2 \qquad X_f = X_i + V_i t + \frac{1}{2} at^2$$

$$V_f^2 = V_i^2 + 2a(X_f - X_i) \leftarrow \text{when don't have time}$$

* Note: When linear equations are vertical, accelerations will always be 9.81 m/s² DOWN

- When an object is thrown vertically upward then its speed on returning to its original starting point is the same as its initial speed.

Vectors

- Any quantity that refers to both a magnitude (number) and a direction
 - Displacement and Velocity are examples of vectors
- In projectile launch problems:



Conceptual Physics Study Guide Workbook Pages

Cathy Duffy



Conceptual Physics Study Guide Workbook Pages:

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 **American Journal of Physics**, 1989 *Innovative Curriculum Materials*, 1999 **ENC Focus**, 1999 Christian Home Educators' Curriculum Manual Cathy Duffy, 1997-11

Study Guide with ActivPhysics Alan Van Heuvelen, Richard Wolfson, Jay M. Pasachoff, 1999 *Preparation for Introductory College Physics* Jon A. Celesia, 1998 This light hearted guide prepares students to be successful in any introductory physics course As students work through the guide they will discover the cool nature of the physical world and find out that physics can be fun While this tutorial may be used with any text it is inspired by and closely follows *Physics The Nature of Things* by Susan M Lea and John Robert Burke Brooks Cole Publishing **The Unschooling Handbook** Mary Griffith, 2010-05-05 To Unschoolers Learning Is As Natural As Breathing Did you know that a growing percentage of home schoolers are becoming unschoolers The unschooling movement is founded on the principle that children learn best when they pursue their own natural curiosities and interests Without bells schedules and rules about what to do and when the knowledge they gain through mindful living and exploration is absorbed more easily and enthusiastically Learning is a natural inborn impulse and the world is rich with lessons to be learned and puzzles to be solved Successful unschooling parents know how to stimulate and direct their children's learning impulse Once you read this book so will you **Physics for Scientists and Engineers** Raymond A. Serway, 2004 NOT SOLD SEPARATELY PHYSICS FOR SCIENTISTS AND ENGINEERS 6th maintains the Serway traditions of concise writing for the students carefully thought out problem sets and worked examples and evolving educational pedagogy This edition introduces a new co author Dr John Jewett at Cal Poly Pomona known best for his teaching awards and his role in the recently published PRINCIPLES OF PHYSICS 3rd also written with Ray Serway This authoritative text along with the newly enhanced supplemental package for instructors and students provides students with the best in introductory physics education Providing students with the tools they need to succeed in introductory physics the 6th edition of this authoritative text features unparalleled media integration and a newly enhanced supplemental package for instructors and students *American Book Publishing Record*, 2005 *Physics for Scientists and Engineers with Modern Physics* Raymond A. Serway, Robert J. Beichner, 2000 This best selling calculus based text is

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The Insider's Guide to the MCAT Chirag Amin, 2000 o potential pre med student should be without this book Based on the format of First Aid for the USMLE Insider s Guide to the MCAT provides a helpful introduction to the MCAT a thorough but concise overview of topic areas that will help students assess their strengths and weaknesses and a review of MCAT study guides currently on the market

Conceptual Physics Workbook Paul G. Hewitt, 2006 **Curriculum Review**, 1986 **Focus a Magazine for Innovators**, 1999 **AAPT Announcer** American Association of Physics Teachers, 1986

The CALLA Handbook Anna Uhl Chamot, J. Michael O'Malley, 1994 Includes units on science mathematics social studies and literature and composition

Physics James S. Walker, 2006 Walker uses an integrated suite of tools worked Examples Active Examples and Conceptual Checkpoints to make conceptual understanding an integral part of solving quantitative problems The pedagogy and approach are based on over 20 years of teaching and reflect the results of physics education research

Physics Eugene Hecht, 2003 Student text An Introduction to Physics Measurement The Language of Physics Kinematics Speed Velocity Speed Velocity Relative Motion Kinematics Acceleration The Concept of Acceleration Uniformly Accelerated Motion Free Fall Newton s Three Laws The Three Laws Dynamics Statics Centripetal Force Gravity Centripetal Force Gravity The Cosmic Force Energy The Transfer of Energy Mechanical Energy Conservation of Mechanical Energy Momentum Collisions Linear Momentum Rotational Motion The Kinematics of Rotation Rotational Equilibrium The Dynamics of Rotation Solids Liquids Gases Atoms Matter Fluid Statics Fluid Dynamics Elasticity Oscillations Elasticity Harmonic Motion Waves Sound Mechanical Waves Sound Thermal Properties of Matter Temperature Thermal Expansion The Gas Laws Heat Thermal Energy Thermal Energy Change of State The Transfer of Thermal Energy Thermodynamics The First Law of Thermodynamics Cyclic Processes Engines Refrigerators The Second Law of Thermodynamics Electrostatics Forces Electromagnetic Charge The Electric Force The Electric Field Electrostatics Energy Electric Potential Capacitance Direct Current Flowing Electricity Resistance Circuits Circuit Principles Network Analysis Optional Magnetism Magnets the Magnetic Field Electrodynamics Magnetic Force Electromagnetic Induction Electromagnetically Induced emf Generators Self Induction AC Electronics Alternating Current R L C AC Networks Optional Electronics Optional Radiant Energy Light The Nature of Light The Electromagnetic Photon Spectrum The Propagation of Light Scattering Scattering Reflection Refraction

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Nuclear Transformation High Energy Physics Elementary Particles Quantum Field Theory A Brief Mathematical Review
Algebra Geometry Trigonometry Vectors Dimensions Science Instruction in the Middle and Secondary Schools Eugene L.
Chiappetta, Thomas R. Koballa (Jr.), Alfred T. Collette, 1998 New edition of a text providing far more than simply a cookbook of
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