

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/s^2
 - 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/s^2
- Does not depend on mass

Variations of equations:

$$\begin{aligned}
 V_{avg} &= \frac{1}{2} (V_i + V_f) & V_f &= V_i + at \text{ (when } t_i = 0) \\
 \Delta X &= V_i t + \frac{1}{2} at^2 & X_f &= X_i + V_i t + \frac{1}{2} at^2 \\
 \Delta X &= V_i t + \frac{1}{2} at^2 & V_f^2 &= V_i^2 + 2a(X_f - X_i) \leftarrow \text{when don't have time}
 \end{aligned}$$

* Note: When linear equations are vertical, accelerations will always be 9.81 m/s^2 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 Projectiles Answer

Marco Cascella



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Student Study Guide & Selected Solutions Manual David D. Reid, 2007 *X+1 School/Board Exam Based Conceptual Physics (School/Board Exam Made Simple)* L M Garg, 2023-06-03 *Instructor's Manual [to Accompany] Conceptual Physics, Eighth Ed* Paul G. Hewitt, 1998

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Physics John D. Cutnell, 2004 **Learning and Understanding** National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Committee on Programs for Advanced Study of Mathematics and Science in American High Schools, 2002-09-06 This book takes a fresh look at programs for advanced studies for high school students in the United States with a particular focus on the Advanced Placement and the International Baccalaureate programs and asks how advanced studies can be significantly improved in general It also examines two of the core issues surrounding these programs they can have a profound impact on other components of the education system and participation in the programs has become key to admission at selective institutions of higher education By looking at what could enhance the quality of high school advanced study programs as well as what precedes and comes after these programs this report provides teachers parents curriculum developers administrators college science and mathematics faculty and the educational

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Helga Dis Isfold Sigurdardottir, Robin Isfold Munkvold, **Multifaceted Graphics for Learning** Tingyi S. Lin, 2006
Physics, Volume 1 Robert Resnick, David Halliday, Kenneth S. Krane, 2002 Each chapter includes questions and problems

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