

# AP Physics Study Guide

## **Unit One: 1D Kinematics and Motion**

- **Distance:** the total length of travel from beginning to end (scalar, always positive)
- **Displacement ( $\Delta x$ ):** the change in position of an object (vector quantity)
  - **Kinematics Equations:**  $v = v_0 + at$ ,  $v^2 = v_0^2 + 2ax$ ,  $x = x_0 + v_0t + \frac{1}{2}at^2$
- Objects in **free fall** move with a constant downward acceleration of magnitude  $g$
- **Significant Figure Rules:** all non-zero digits are significant, leading zeroes are not significant, trailing zeroes are significant
- **Vector:** quantity with a magnitude and a direction (displacement, acceleration, velocity)
  - Can be added using the tip-to-tail method and connecting first tail to second tip

## **Unit Two: Projectile Motion**

- The constant acceleration kinematics equations can be applied in individual directions too
- **Projectile:** something launched into motion and whose path is determined by gravity
- The **trajectory** is symmetrical from the point it is launched from the time at which it reaches the same y-coordinate in its path

## **Unit Three: Newton's Laws of Motion**

- **Mass (m):** scalar quantity measuring how difficult it is to accelerate an object (linear inertia)
- **Law of Inertia (N1L):** an object in rest will stay at rest, and an object in motion will stay in motion, unless there is a net external force acting on it
- **Newton's Second Law (N2L):**  $\Sigma F = ma$  when force is a vector and so is acceleration
- **Newton's Third Law (N3L):** every force has a reaction force equal in magnitude and opposite in direction that relates to the same object pair as the action force
- **Weight:** the gravitational force that an object exerts on a surface:  $W = mg$
- **Apparent Weight:** the force felt from contact with a surface in an accelerating system
- **Normal Force:** a force exerted by a surface that acts perpendicular to the surface
- Use **Free-Body Diagrams** to show the forces acting on an object → need for all problems
- **Friction:** force that tries to prevent relative motion between two surfaces in contact
  - **Static Friction:** the friction that builds before there is movement between surfaces
  - **Kinetic Friction:** the friction between two surfaces that are moving
  - **Equations for Friction:**  $f_s = \mu_s F_n$  and  $f_k = \mu_k F_n$ , friction is always opposite to motion
- **Object moving in a circular path equations:**  $a_{\text{cent}} = \frac{v^2}{r}$  and  $F_{\text{cent}} = ma_{\text{cent}} = \frac{mv^2}{r}$
- If an object is moving in a circle, there is a net force provided towards the center of the circle (**centripetal force**)

# Ap Physics B Study Guide

**ML Morrison**

## Ap Physics B Study Guide:

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**AP**

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Greg Jacobs, Joshua Schulman, 2005-01-21 For the more than one million students taking the AP exams each year Features include Boxed quotes offering advice from students who have aced the exams and from AP teachers and college professors Sample tests that closely simulate real exams Review material based on the contents of the most recent tests Icons highlighting important facts vocabulary and frequently asked questions Websites and links to valuable online test resources along with author e mail addresses for students with follow up questions Authors who are either AP course instructors or exam developers

**How to Prepare for the AP Physics B** Jonathan S. Wolf, 1999 Offered in this manual is a diagnostic test with answer key plus two full length AP Physics B practice tests modeled on actual exams All questions are answered and explained Extensive review material covers all Physics B topics vectors motion Newton's laws of motion work and energy impacts and linear momentum torque and angular momentum oscillatory motion gravitation temperature and heat thermodynamics electrostatics electric circuits magnetism electromagnetic induction waves and sound light geometrical optics quantum theory the atom the nucleus and special relativity Added features include test taking advice a glossary a math review and physics charts and tables

**AP Physics B** Connie Wells, Hugh Henderson, 2002 For students who wish to prepare for the Advanced Placement AP Physics exam on their own this guide includes a full content review two full length practice tests hundreds of practice questions with thorough answer explanations and proven test taking strategies 352 pp

**Barron's AP Physics B** Jonathan Wolf, 2011-02-01 This manual has been updated to reflect the most recent AP Physics B exams It offers a diagnostic test and two full length model exams with all questions answered and explained An extensive review of all AP Physics B test topics covers vectors motion Newton's laws of motion work and energy oscillatory motion fluids gravitation temperature and heat thermodynamics magnetism electromagnetic induction waves and sound light geometrical optics quantum theory the atom the nucleus and much more Also provided are study and test taking advice a math review and a glossary of physics terms

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