



# PHYSICS



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## WHAT IS PHYSICS ALL ABOUT?

Physics seeks to understand the natural phenomena that occur in our universe; a description of a natural phenomenon uses many specific terms, definitions and mathematical equations.  
**Solving Problems in Physics**  
In physics, we use the SI units (International System) for data and calculations.

Base Quantity	Symbol	Unit
Length	$L, x$	Meter - m
Mass	$m, M$	Kilogram - kg
Temperature	$T$	Kelvin - K
Time	$t$	Second - s
Electric Current	$I$	Ampere - A (C/s)

Other physical quantities are derived from these basic units. Prefixes denote fractions or multiples of units; many variable symbols are Greek letters.  
**Math Skills:** Many physical concepts are only understood with the use of algebra, statistics, trigonometry and calculus.

## CLASSICAL MECHANICS

**A. Classical or Newtonian Mechanics:** The position of a body is given by an equation of motion with position, velocity and acceleration as variables; mass is the measure of the amount of matter; the standard unit for mass is kg, 1 kg = 1000 g; inertia is a property of matter, and as such, it occupies space.

1. Motion along a straight line is called rectilinear; the equation of motion describes the position of the particle and velocity for elapsed time,  $t$ .

a. **Velocity ( $v$ ):** The rate of change of the displacement ( $x$ ) with time ( $t$ ):  $v = \frac{dx}{dt} = \frac{\Delta x}{\Delta t}$

b. **Acceleration ( $a$ ):** The rate of change of the velocity with time:  $a = \frac{dv}{dt} = \frac{\Delta v}{\Delta t}$

$a$  &  $v$  are vectors, with magnitude and direction.  
c. **Speed** is the absolute value of the velocity; scalar with the same units as velocity.

2. **Equations of Motion for One Dimension (1-D):**

Equations of motion describe the future position ( $x$ ) and velocity ( $v$ ) of a body in terms of the initial velocity ( $v_0$ ), position ( $x_0$ ) and acceleration ( $a$ )

a. For constant acceleration, the position is related to the time and acceleration by the following equation of motion:  $x(t) = x_0 + v_0 t + \frac{1}{2} a t^2$

b. For constant acceleration, the velocity vs. time is given by the following:  $v_1(t) = v_0 + a t$

c. If the acceleration is a function of time, the equation must be solved using  $a = a(t)$

**B. Motion in Two Dimensions (2-D):**

1. For bodies moving along a straight line, derive  $x$ - and  $y$ -equations of motion:  
 $x = v_{0x} t + \frac{1}{2} a_x t^2$   
 $y = v_{0y} t + \frac{1}{2} a_y t^2$



2. For a rotating body, use polar coordinates, an angle variable,  $\theta$ , and  $r$ , a radial distance from the rotational center



**C. Motion in Three Dimensions (3-D):**

1. **Cartesian System:** Equations of motion with  $x$ ,  $y$  and  $z$  components

2. **Spherical Coordinates:** Equations of motion based on two angles ( $\theta$  and  $\phi$ ) and  $r$ , the radial distance from the origin.



**D. Newton's Laws of Motion**  
Newton's Laws are the core principles for describing the motion of classical objects in response to forces. The SI unit of force is the Newton, N; 1N=1kg m/s<sup>2</sup>, the cgs unit is the dyne; 1 dyne = 1g cm/s<sup>2</sup>

- Newton's 1st Law:** A body remains at rest or in motion unless influenced by a force
- Newton's 2nd Law:** Force and acceleration determine the motion of a body and predict future position and velocity:  $F = m a$  OR  $\Sigma F = m a$
- Newton's 3rd Law:** Every action is countered by an opposing action

### E. Types of Forces

1. A body force acts on the entire body, with the force acting at the center of mass

a. A gravitational force,  $F_g$ , pulls an object toward the center of the Earth:  $F_g = m g$

b. Weight =  $F_g$ ; gravitational force

c. Mass is a measure of the quantity of material, independent of  $g$  and other forces

2. Surface forces act on the body's surface

a. **Friction,  $F_f$ ,** is proportional to the force normal to the part of the body in contact with a surface.  
 $F_f = F_N = \mu F_N$

i. **Static friction** resists the movement of a body

ii. **Dynamic friction** slows the motion of a body

For an object on a horizontal plane:  
 $F_f = \mu F_N = \mu m g$   
Net force =  $F_f + F_g$



### F. Circular Motion

1. Motion along a circular path uses polar coordinates: ( $r, \theta$ )

2. **Key Variables:**

$r$	Meter	The distance from the rotation center (center of mass)
$\theta$	Radian	The angle between $r$ and the ( $x$ ) axis
$\omega$	Radian/second	The angular velocity
$\alpha$	Radian/second <sup>2</sup>	The angular acceleration
$s$	Meter	The circular motion arc $s = r\theta$ ( $\theta$ in rad)

3. **Tangential acceleration & velocity:**  
 $v_t = r \omega$ ;  $a_t = r \alpha$ ;  $v$  and  $a$  along the path of the motion are

4. **Centripetal acceleration:**  $a_c = \frac{v^2}{r}$ ;  $a$  is directed toward the rotational center

a. The centripetal force keeps the body in circular motion with a tangential acceleration and velocity

### G. Kinetic Energy & Work

1. **Kinetic energy,  $K$ :** Kinetic energy is the energy of motion; mass,  $m$  and velocity,  $v$ :  $K = \frac{1}{2} m v^2$

The SI energy unit is the Joule (J); 1J = 1 kg m<sup>2</sup>/s<sup>2</sup>

2. **Momentum,  $p$ :** Momentum is a property of motion, defined as the product of mass and velocity:  $p = m v$

3. **Work ( $W$ ):** Work is a force acting on a body moving a distance; for a general force,  $F$ , and a body moving a path,  $s$ :  $W = \int F ds$

For a constant force, work is the scalar product of the two vectors: force,  $F$ , and path,  $r$ :  
 $W = F d \cos(\theta) = F \cdot r$



4. **Power ( $P$ ):** energy expended per unit time:  
 $P = \frac{\Delta Work}{\Delta time} = \frac{\Delta Work}{\Delta t}$

Work =  $\int P(t) dt$

The SI unit for power is the Watt (W): 1 W = 1 Joule/second = 1 J/s

Work for a constant output of power:  
 $W = P \Delta t$

### H. Potential Energy & Energy Conservation

1. The total energy of a body,  $E$ , is the sum of kinetic,  $K$ , & potential energy,  $U$ :  $E = K + \Sigma U$

2. **Potential energy** arises from the interaction with a potential from an external force

Potential energy is energy of position;  $U(r)$ ; the form of  $U$  depends on the force generating the potential:  
**Gravitation:**  $U(h) = mgh$

**Electrostatic:**  $U(r_{12}) = \frac{q_1 q_2}{r_{12}}$

If there are no other forces acting on the system,  $E$  is constant and the system is called **conservative**

### I. Collisions & Linear Momentum

1. **Types of Collisions:**  
a. **Elastic:** conserve energy  
b. **Inelastic:** energy is lost as heat or deformation



2. **Relative Motion & Frames of Reference:** A body moves with velocity  $v$  in frame  $S$ ; in frame  $S'$  the velocity is  $v'$ ; if  $V_{S'}$  is the velocity of frame  $S'$  relative to  $S$ , therefore:  $v = V_{S'} + v'$

3. **Elastic Collision**  
Conserve Kinetic Energy:  $\Sigma \frac{1}{2} m v^2 = \Sigma \frac{1}{2} m v'^2$

Conserve Momentum:  $\Sigma m v_i = \Sigma m v_f$

4. **Impulse** is a force acting over time  
Impulse =  $F \Delta t$  or  $\int F(t) dt$   
Impulse is also the momentum change:  $p_{fin} - p_{ini}$

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O'Kuma, Arthur Beiser, 1991 **Study Guide with ActivPhysics** Alan Van Heuvelen, Richard Wolfson, Jay M. Pasachoff, 1999

RFID+ Study Guide and Practice Exams Paul Sanghera, 2011-04-18 Radio Frequency Identification RFID is an automatic identification method relying on storing and remotely retrieving data using devices called RFID tags also called transponders This book is a guide to CompTIA's new RFID Security exam and includes the following study elements Exam objectives covered in a chapter are clearly explained in the beginning of the chapter Notes and Alerts highlight the crucial points Exam's Eye View emphasizes the important points from the exam's perspective Key Terms present definitions Review Questions contain questions modeled after the real exam questions Answers to these questions are presented with complete explanations in an appendix Also included is a full practice exam modeled after the real exam The answers to the exam questions are presented with full explanations The only RFID study guide that provides 100% coverage of all exam objectives for the CompTIA RFID exam Packed full of special features and material to aid and reinforce learning Study Guide to Accompany Fuller/Fuller/Fuller Physics Thomas C. Campbell, Robert G. Fuller, 1978 **The Ultimate Study Guide to**

**Student Success** Dr. Abhishek M, 2025-07-30 Success in school and life isn't just about studying harder it's about studying smarter with purpose passion and the right mindset The Ultimate Study Guide for Student Success is more than just a toolkit of strategies it's your personal roadmap to becoming a confident motivated and resilient learner From crafting the perfect study environment to mastering memory techniques managing time like a pro and keeping stress in check this guide equips you with practical tools that are rooted in science and real life application But it doesn't stop there True success also comes from within this book dives deep into the emotional and psychological foundations of learning You'll explore how to overcome procrastination build grit stay focused and cultivate an unstoppable mindset Whether you're a student aiming for top grades or a lifelong learner seeking growth this book will transform not only how you learn but who you become in the process Get ready to unlock your full potential The journey to lasting student success starts here Student Solutions Manual and Study Guide for Serway and Jewett's Physics for Scientists and Engineers, Sixth Edition John R. Gordon, Ralph V. McGrew, Raymond A. Serway, 2004 Written by John R Gordon Ralph McGrew and Raymond Serway the two volume manual features detailed solutions to 20 percent of the end of chapter problems from the text This manual also features a list of important equations concepts and answers to selected end of chapter questions **Excel HSC Biology** Diane Alford, Jennifer Hill, 2008

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