



# PHYSICS



## 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	$L, s$	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,  $t$

- Velocity ( $v$ ):** The rate of change of the displacement (s) with time (t):  $v = \frac{ds}{dt} = \frac{dx}{dt}$
  - Acceleration ( $a$ ):** The rate of change of the velocity with time:  $a = \frac{dv}{dt} = \frac{d^2s}{dt^2}$
- $u$  &  $v$  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 ( $u$ ), position ( $x_0$ ) and acceleration ( $a$ )

- For constant acceleration, the position is related to the time and acceleration by the following equation of motion:  $x(t) = x_0 + v_0t + \frac{1}{2}at^2$
- For constant acceleration, the velocity vs. time is given by the following:  $v_t(t) = v_0 + at$
- 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



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.

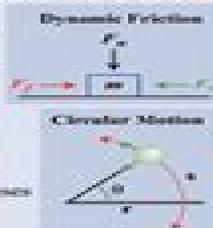


**D. Newton's Laws of Motion**  
Newton's Laws are the core principles for describing the motion of classical objects in response to forces. The SI unit of force is the Newton, N; 1N=1kg m/s<sup>2</sup>, the cgs unit is the dyne; 1 dyne = 1g cm/s<sup>2</sup>

- 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:  $F = ma$  OR  $\sum F = ma$
- Newton's 3rd Law:** Every action is countered by an opposing action

### E. Types of Forces

- A body force acts on the entire body, with the force acting at the center of mass**
  - A gravitational force,  $F_g$ , pulls an object toward the center of the Earth;  $F_g = mg$
  - Weight =  $F_g$ ; gravitational force
  - Mass is a measure of the quantity of material, independent of  $g$  and other forces.
- Surface forces act on the body's surface**
  - Friction,  $F_f$ , is proportional to the force normal to the part of the body in contact with a surface.  $F_f = F_N = \mu F_N$ 
    - Static friction resists the move-ment of a body
    - Dynamic friction slows the motion of a body
 For an object on a horizontal plane:  $F_f = \mu F_N = \mu mg$   
Net force =  $F_1 - F_f$



### F. Circular Motion

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

Variable	Unit	Description
$r$	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)

- Tangential acceleration & velocity:**  $v_t = r\alpha$ ,  $a_t = r\alpha$ ;  $v$  and  $a$  along the path of the motion are
- Centripetal acceleration:**  $a_c = \frac{v^2}{r}$ ;  $a$  is directed toward the rotational center
  - The centripetal force keeps the body in circular motion with a tangential acceleration and velocity

### G. Kinetic Energy & Work

- Kinetic energy,  $K$ :** Kinetic energy is the energy of motion; mass,  $m$  and velocity,  $v$ ;  $K = \frac{1}{2}mv^2$   
The SI energy unit is the Joule (J); 1J = 1 kg m<sup>2</sup>/s<sup>2</sup>
- Momentum,  $p$ :** Momentum is a property of motion, defined as the product of mass and velocity:  $p = mv$
- 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,  $r$ :  
 $W = Fd \cos(\theta) = F \cdot r$



- Power (P)** is energy expended per unit time:  $P = \frac{dWork}{dt} = \frac{dWork}{dt}$   
 $Work = \int P(t)dt$   
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

- The total energy of a body,  $E_t$ , is the sum of kinetic,  $K$ , & potential energy,  $U$ ;  $E = K + \sum U$
- 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:  
Gravitational:  $U(h) = mgh$   
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

- Types of Collisions**
  - Elastic conserve energy
  - Inelastic; energy is lost as heat or deformation
- Relative Motion & Frames of Reference:** A body moves with velocity  $v$  in frame  $S$ ; in frame  $S'$  the velocity is  $v'$ ; if  $V_0$  is the velocity of frame  $S'$  relative to  $S$ , therefore:  $v = V_0 + v'$
- Elastic Collision**  
Conserve Kinetic Energy:  $\sum \frac{1}{2}mv^2 = \sum \frac{1}{2}mv'^2$   
Conserve Momentum:  $\sum m v_i = \sum m v_f$
- 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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**J Rink**



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