

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	s, 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 and 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 resists space.

- 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): $v = \frac{ds}{dt} = \frac{\Delta s}{\Delta t}$.
- 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.

d Equations of Motion for One Dimension (1-D): Equations of motion describe the three position (s) and velocity (v) of a body in terms of the initial velocity (v_0), position (s_0) and acceleration (a).

- For constant acceleration, the position is related to the time and acceleration by the following equation of motion: $s(t) = s_0 + v_0 t + \frac{1}{2} a t^2$.
- For constant acceleration, the velocity vs. time is given by the following: $v(t) = v_0 + a t$.
- If the acceleration is a function of time, the equation must be solved using $a = a(t)$.

B. Motion in Three Dimensions (3-D)

- For bodies moving along a straight line, derive x - and y -equations of motion: $x = v_{0x} t + \frac{1}{2} a_x t^2$, $y = v_{0y} t + \frac{1}{2} a_y t^2$.
- For a rotating body, use polar coordinates, an angle variable, θ , and r , a radial distance from the rotational center.

C. Motion in Three Dimensions (3-D)

- Cartesian System:** Equations of motion with x , y and z components.
- Spherical Coordinates:** Equations of motion based on two angles (θ and ϕ) 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, $1 \text{ N} = 1 \text{ kg m/s}^2$; the cgs unit is the dyne: $1 \text{ dyne} = 1 \text{ g cm/s}^2$.

- 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

- 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: $F_g = m g$.
 - 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: $F_f = \mu F_n$.
 - Static friction resists the movement of a body.
 - 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 = $F_n - F_f$



F. Circular Motion

- Motion along a circular path uses polar coordinates: (r, θ) .
- Key Variables:

r	Meter	The distance from the rotation center (center of mass)
θ	Radian	The angle between r and the Ox axis
ω	Radian/second	The angular velocity
α	Radian/second ²	The angular acceleration
v	Meter	The circular motion acc: $v = r\omega$ (θ in rad)
- Tangential acceleration \dot{v} velocity: $\dot{v} = r\omega\alpha = r\omega^2$; v and α along the path of the motion are.
- Centrifugal acceleration: $a_c = \frac{v^2}{r}$; a is directed toward the rotational center.
- The centrifugal force keeps the body in circular motion with a tangential acceleration and velocity.



G. Kinetic Energy & Work

- Kinetic Energy:** KE 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): $1 J = 1 \text{ kg m}^2 \text{s}^{-2}$.
- Momentum:** mv Momentum is a property of motion, defined as the product of mass and velocity: $p = m v$.
- 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 : $W = \int F \cdot ds$. For a constant force, work is the scalar product of the two vectors: force, F , and path, s : $W = F \cdot \text{dis}(s) = F \cdot r = F r \cos(\theta) = F r \cdot v$.

Work: 
 Horizontal work: $F \cdot r$ 
 No work: $F \cdot r$

- Power (P):** is energy expended per unit time: $P = \frac{dW}{dt} = \frac{dK}{dt}$.
- Work:** $\int F(t) \cdot ds$.

The SI unit for power is the Watt (W): $1 W = 1 \text{ Joule/second} = 1 \text{ J/s}$. Work for a constant output of power: $W = P \cdot t$.

H. Potential Energy & Energy Conservation

- The total energy of a body, E , 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: Gravitation: $U(r, \theta) = \frac{G m}{r}$.
- 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 $V_{S'}$ is the velocity of frame S' relative to S , therefore: $v' = V_{S'} + v$.
- Elastic Collision:** $\text{Conservative Kinetic Energy: } \sum \frac{1}{2} m v_i^2 = \sum \frac{1}{2} m v_f^2$
- Conservative Momentum:** $\sum m v_i = \sum m v_f$.
- Impulse:** is a force acting over time: $\text{Impulse} = F \cdot t$ or $\int F(t) \cdot dt$. Impulse is also the momentum change: $\Delta p = F \cdot t$.

Study Guide Physics And Problems

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web introduction aldol condensations are essential to organic synthesis because they are able to produce carbon carbon bonds an enolate anion is formed starting aldol condensation the enolate anion comes from an aldehyde or a ketone enolizable aldehydes and ketones undergo a reaction when either an acid or base catalyst is present

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web dibenzalacetone was synthesized in the lab from benzaldehyde and acetone under basic conditions the gc ms was used to relate the molar mass of the product thin layer chromatography was used to visualize the relative rf factor for each isomer uv vis instrument showed three peaks that were assigned to each isomer

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web an aldol reaction was performed by combining acetone and benzaldehyde to make dibenzalacetone the percent yield of dibenzalacetone was found to be 73 which is a good percent yield the melting point of dibenzalacetone was around the range of 104-110 °C this helped conclude that dibenzalacetone had a trans-trans-*e,e* isomer

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web oct 25 2013 experiment performed on may 6 and 8 2003 for the purpose of strong this experiment was to synthesize dibenzalacetone via an aldol condensation reaction between acetone and benzaldehyde this was done by mixing the two reactants with NaOH and ethanol

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web dibenzalacetone a introduction in an aldol condensation two molecules of aldehyde or ketone are joined together along with the loss of water for example in the aldol condensation shown in figure 1 two molecules of ethanal are reacted to produce an *a,b* unsaturated aldehyde and water figure 1 aldol condensation of ethanal to