

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, $1 \text{ kg} = 1000 \text{ g}$; 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

$$(x) \text{ with time } (t): v = \frac{dx}{dt} = \frac{dx}{dt}$$

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

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: $v(t) = v_0 + a t$

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, θ , and r , a radial distance from the rotational center

Polar: (r, θ)
 $r = r \cos \theta$
 $r^2 = x^2 + y^2$

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 (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, N; $1 \text{ N} = 1 \text{ kg m/s}^2$, the cgs unit is the dyne; $1 \text{ dyne} = 1 \text{ g cm/s}^2$

1. **Newton's 1st Law:** A body remains at rest or in motion unless influenced by a force

2. **Newton's 2nd Law:** Force and acceleration determine the motion of a body and predict future position and velocity: $F = m a$ OR $\Sigma F = m a$

3. **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:

$$F_f = \mu F_N = \mu m g$$

$$\text{Net force} = F_A - F_f$$



F. Circular Motion

1. Motion along a circular path uses polar coordinates: (r, θ)

2. **Key Variables:**

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

3. **Tangential acceleration & velocity:**

$$v_t = r \omega; a_t = r \alpha; v \text{ and } a \text{ along the path of the motion are}$$

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)**: $1 \text{ J} = 1 \text{ kg m}^2/\text{s}^2$

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:

$$P = \frac{dW}{dt} = \frac{dW}{dt}$$

$$\text{Work} = \int P(t) dt$$

The SI unit for power is the **Watt (W)**:

$$1 \text{ W} = 1 \text{ Joule/second} = 1 \text{ J/s}$$

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: $U(h) = m g h$

Electrostatic: $U(r_e) = \frac{q_1 q_2}{r_e}$

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:**

$$\text{Conserve Kinetic Energy: } \Sigma \frac{1}{2} m v^2 = \Sigma \frac{1}{2} m v'^2$$

$$\text{Conserve Momentum: } \Sigma m v_i = \Sigma m v_f$$

4. **Impulse** is a force acting over time

$$\text{Impulse} = F \Delta t \text{ or } \int F(t) dt$$

Impulse is also the momentum change: $p_{\text{fin}} - p_{\text{ini}}$



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AN Whitehead



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web jun 27 2019 organisation the university of sydney job title operations and finance officer word limit 350 500 per point location darlington camperdown campus proficiency in the use of computers including project and database management systems and the ms office suite excellent communication skills both written and verbal i

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web jul 11 2019 organisation australian taxation office job title aps6 finance officer word limit 2 page statement maximum 700 words location albury demonstrated knowledge of or the ability to acquire experience in budget management accounting governance financial reporting and business systems or risk management

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division mpls department computer science location wolfson building parks road oxford grade and salary grade 6 salary 27
057 32 277 p a hours full time contract type permanent reporting to senior finance officer

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web may 30 2019 selection criteria examples finance officer job title finance officer word limit 2 pages as an accomplished
finance supervisor with public safety business agency please accept my application for the currently advertised position of
finance officer within the department of transport and main roads queensland

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some job applications ask you to respond to selection criteria such as applications for government positions selection criteria
require answers that demonstrate your skills knowledge qualifications and experience

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officer word limit 3 pages location brisbane cbd dear panel members i am pleased to be able to submit my application for the
finance officer position that is currently advertised

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web key selection criteria position title finance officer load 0 6 fte 22 8 hours a week days to be worked over 3 5 days a week
negotiable nature permanent part time subject to 6 month probation period required qualifications working with children
check or able to obtain one upon employment