

Displacement:

- $d = vt$ (for constant velocity) or $\frac{1}{2}at^2$ (for constant acceleration)
- $d = \int v dt$ (general case)
- $v = \frac{dd}{dt}$ (instantaneous velocity)
- $a = \frac{dv}{dt}$ (instantaneous acceleration)
- $a = \frac{d^2d}{dt^2}$ (general case)
- $d = \int v dt$ (general case)
- $v = \int a dt$ (general case)
- $a = \frac{dv}{dt}$ (general case)
- $d = \int v dt$ (general case)

Displacement: change in position
Velocity: rate of change of position
Acceleration: rate of change of velocity

Force: push or pull
Newton's 1st Law: An object at rest stays at rest and an object in motion stays in motion with the same speed and in the same direction unless acted upon by an unbalanced force.

Newton's 2nd Law: $F = ma$

Newton's 3rd Law: For every action, there is an equal and opposite reaction.

Work: $W = Fd$
Power: $P = \frac{W}{t}$

Energy: ability to do work
Kinetic Energy: $KE = \frac{1}{2}mv^2$
Potential Energy: $PE = mgh$

Simple Harmonic Motion:
Spring Constant: k
Displacement: x
Force: $F = -kx$
Period: $T = 2\pi\sqrt{\frac{m}{k}}$
Frequency: $f = \frac{1}{T}$

Wave: disturbance that travels through a medium or space
Transverse Wave: particles move perpendicular to wave direction
Longitudinal Wave: particles move parallel to wave direction

Sound: mechanical wave that travels through a medium
Speed of Sound: $v = \sqrt{\frac{B}{\rho}}$
Frequency: f
Wavelength: λ
Period: $T = \frac{1}{f}$

Rotation:
Angular Displacement: θ
Angular Velocity: $\omega = \frac{d\theta}{dt}$
Angular Acceleration: $\alpha = \frac{d\omega}{dt}$
Linear Velocity: $v = r\omega$
Linear Acceleration: $a = r\alpha$

Rotational Kinematics:
Angular Displacement: θ
Angular Velocity: ω
Angular Acceleration: α
Linear Velocity: $v = r\omega$
Linear Acceleration: $a = r\alpha$

Rotational Dynamics:
Torque: $\tau = rF\sin\theta$
Moment of Inertia: $I = \sum mr^2$
Rotational Kinetic Energy: $KE_{rot} = \frac{1}{2}I\omega^2$

Simple Harmonic Motion (SHM):
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