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Common geometric Formulas Circumference =  $2\pi r$  Area circle =  $\pi r^2$  Surface area (sphere) =  $4\pi r^2$  Volume (sphere) =  $\frac{4}{3}\pi r^3$  Volume (rectangular solid) =  $l \cdot w \cdot h$   
Velocity Average Velocity  $\bar{v} = \frac{\Delta x}{\Delta t}$

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Grade School & Engineering Physics Formulas Reference Force (Newton's 2nd Law) Velocity (v) Density ( $\rho$ ) Drag Force Gravitational Force (g) Buoyant Force Momentum Angular Velocity ( $\omega$ ) Escape Velocity Orbital Velocity Dynamic Viscosity Kinematic Viscosity Kinetic Energy Rotational Kinetic Energy ...

### ~~Grade School & Engineering Physics Formulas Reference~~

In a bar of material with a cross-sectional area A, length L, and a temperature difference across the ends of  $\Delta T$ , there is a heat flow over a time, t, given by these formulas: The pressure, P, and volume, V, of n moles of an ideal gas at temperature T is given by this formula, where R is the gas constant:

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## Physics Equations and Formulas—dummies

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The formulas for motion in one dimension (Also called Kinematical equations of motion) are as follows. (Here 'u' is initial velocity, 'v' is final velocity, 'a' is acceleration and t is time):  $s = ut + \frac{1}{2} at^2$ .  $v = u + at$ .  $v^2 = u^2 + 2as$ .  $v_{av}$  (Average Velocity) =  $(v+u)/2$ .

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 $F = force$   $d = distance$  Fluid Mechanics 1 T' L Power (Guy-L' L P 1 V 1 = P 2 V 2 B  
 $y' L Q = Av$   $A_1 v_1 = A_2 v_2 + V$  absolute pressure = gauge pressure +  
atmospheric pressure  $P = absolute\ pressure$  Force  $A = Area$   $V = volume$  T T =  
absolute temperature  $Q = flow\ rate$

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where  $\theta$  is the angle of rotation about an axis defined by a unit vector  $n$ . Kinetic energy.  $\Delta E_k = W = \frac{1}{2} m (v^2 - v_0^2)$   $\{\displaystyle \Delta E_{k}=W= \frac{1}{2}m(v^2-v_0^2)\}$  Elastic potential energy. For a stretched spring fixed at one end obeying Hooke's law :

## List of equations in classical mechanics—Wikipedia

Drake equation (aka Green Bank equation) Earth Similarity Index. Einstein's field equation. Einstein-Maxwell-Dirac equations. Euler equations (fluid dynamics) Euler's equations (rigid body dynamics) Relativistic Euler equations. Euler-Lagrange equation. Faraday's law of induction.

## List of equations—Wikipedia

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deal with angular motion, Carnot engines, fluids, forces, moments of inertia, linear motion, simple harmonic motion, thermodynamics, and work and energy.

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