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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) =  $lwh$  Velocity Average Velocity =  $\frac{v_1 + v_2}{2}$

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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 ...

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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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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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PLTW, Inc. Engineering Formulas  $T = F \cdot d$  Efficiency  $d = d_{00}$  Energy: Work  $W = \text{work}$   $F = \text{force}$   $d = \text{distance}$  Fluid Mechanics  $1 \cdot T \cdot L$  Power (Guy-L)  $P = \frac{1}{2} \rho v^3 A$   $V = P \cdot t$   $B \cdot y \cdot L \cdot Q = A \cdot v \cdot A \cdot 1 \cdot v \cdot 1 = A^2 \cdot v^2 + V$  absolute pressure = gauge pressure + atmospheric pressure  $P = \text{absolute pressure}$  Force  $A = \text{Area}$   $V = \text{volume}$   $T = \text{absolute temperature}$   $Q = \text{flow rate}$

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

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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.

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