

General		
Average speed (ms^{-1}) = $\frac{\text{distance (m)}}{\text{time (s)}}$		
Average velocity (ms^{-1}) = $\frac{\text{displacement (m)}}{\text{time (s)}}$	$v = \frac{d}{t}$	
Period of a pendulum (s) = $\frac{\text{total time (s)}}{\text{number of swings}}$	$T = \frac{1}{\text{number}}$	
Acceleration (ms^{-2}) = $\frac{\text{final velocity (ms}^{-1}\text{)} - \text{initial velocity (ms}^{-1}\text{)}}{\text{time (s)}}$	$a = \frac{v - u}{t}$	
Weight (N) = mass (kg) $\times$ gravitational field strength (ms^{-2}) Near Earth's gravitational field strength = 9.8 ms^{-2}	$W = mg$	
Force (N) = mass (kg) $\times$ acceleration (ms^{-2})	$F = ma$	
Density (kgm^{-3}) = $\frac{\text{mass (kg)}}{\text{volume (m}^3\text{)}}$	$\rho = \frac{m}{V}$	
Hooke's Law: Force (N) = constant (Nm^{-1}) $\times$ extension (m)	$F = kx$	
Pressure (Pa) = $\frac{\text{force (N)}}{\text{area (m}^2\text{)}}$	$p = \frac{F}{A}$	
Fluid Pressure (Pa) = density (kgm^{-3}) $\times$ gravitational field strength (ms^{-2} or Nkg^{-1}) $\times$ height (m)	$p = \rho gh$	
Work (J) = force (N) $\times$ distance moved (m)	$\Delta E = Fd$	
Power (W) = $\frac{\text{work (J)}}{\text{time (s)}}$	$P = \frac{\Delta E}{t}$	
Kinetic Energy (J) = $\frac{1}{2} \times \text{mass (kg)} \times \text{velocity}^2 (\text{ms}^{-2})$	$KE = \frac{1}{2}mv^2$	
Gravitational potential energy (J) = mass (kg) $\times$ gravitational field strength (ms^{-2} or Nkg^{-1}) $\times$ height (m)	$GPE = mgh$	
Efficiency (%) = $\frac{\text{useful power output (W)}}{\text{total power input (W)}} \times 100$	Efficiency = $\frac{P_{\text{out}}}{P_{\text{in}}}$	
Efficiency (%) = $\frac{\text{useful energy output (J)}}{\text{total energy input (J)}} \times 100$	Efficiency = $\frac{E_{\text{out}}}{E_{\text{in}}}$	
Moment (Nm) = force (N) $\times$ perpendicular distance from pivot (m)	$M = Fd$	
Sum of clockwise moments (Nm) = sum of anticlockwise moments (Nm)	$F_1d_1 = F_2d_2$	
Momentum (kgms^{-1}) = mass (kg) $\times$ velocity (ms^{-1})	$p = mv$	
Force (N) = $\frac{\text{change in momentum (kgms}^{-1}\text{)}}{\text{time (s)}}$	$F = \frac{\Delta p}{t}$	
Impulse (kgms^{-1} or Ns) = change in momentum (kgms^{-1})	$ Ft = mv - mu$	
Centripetal Force (N) = $\frac{\text{mass (kg)} \times \text{velocity}^2 (\text{ms}^{-2})}{\text{radius (m)}}$	$F = \frac{mv^2}{r}$	
Orbital Period (s) = $\frac{2\pi \times \text{radius (m)}}{\text{velocity (ms}^{-1}\text{)}}$	$T = \frac{2\pi r}{v}$	
Thermal		
Boyle's Law: for changes in gas pressure at constant temperature: pressure ₁ (Pa) $\times$ volume ₁ (m^3) = pressure ₂ (Pa) $\times$ volume ₂ (m^3) or pressure (Pa) $\times$ volume (m^3) = constant	$p_1V_1 = p_2V_2$ or $pV = \text{constant}$	
Energy (J) = mass (kg) $\times$ specific heat capacity ($\text{Jkg}^{-1}\text{K}^{-1}$) $\times$ temperature change ($^{\circ}\text{C}$)	$E = mc\Delta T$	
Thermal capacity ($\text{J}^{\circ}\text{C}^{-1}$) = mass (kg) $\times$ specific heat capacity ($\text{Jkg}^{-1}\text{K}^{-1}$)	$ C = mc$	
Energy transferred (J) = mass (kg) $\times$ specific latent heat (Jkg^{-1})	$E = mL$	
Expansion (m) = linear expansivity ($^{\circ}\text{C}^{-1}$) $\times$ original length (m) $\times$ temperature rise ($^{\circ}\text{C}$)	Expansion = $\alpha L\Delta T$	

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