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Physics Equations & Answers (Quick Study Academic)

BASICS			FUNDAMENTAL PHYSICAL CONSTANTS			CONVERSION FACTORS AND ALTERNATE UNITS	
Base Units	Symbol	Unit	Base Units	Symbol	Unit	Unit	Description
Length	L, l	Meter - m	Mass of electron	m_e	9.11×10^{-31} kg	Angle	degrees $360^\circ = 2\pi$ rad
Mass	m, M	Kilogram - kg	Mass of proton	m_p	1.67×10^{-27} kg	Energy	Eq. $1 \text{ J} = 1 \text{ kg m}^2/\text{s}^2$
Temperature	T	Kelvin - K	Avogadro Constant	N_A	$6.02 \times 10^{23} \text{ mol}^{-1}$	Energy	Eq. $1 \text{ eV} = 1.6 \times 10^{-19} \text{ J}$
Time	t	Second - s	Elementary charge	e	$1.60 \times 10^{-19} \text{ C}$	Energy	Electron Volt $1 \text{ eV} = 1.60 \times 10^{-19} \text{ J}$
Electric Current	I	Ampere - A, C/s	Faraday constant	F	$96,485 \text{ C/mol}$	Force	Eq. $1 \text{ N} = 1 \text{ kg m/s}^2$
Derived Units	Symbol	Unit	Speed of light	c	$3 \times 10^8 \text{ m/s}$	Pressure	Eq. $1 \text{ Pa} = 1 \text{ N/m}^2$
Acceleration	a	m/s^2	Molar Gas Constant	R	$8.314 \text{ J/mol}^\circ\text{K}$	Volume	Eq. $1 \text{ L} = 1 \text{ dm}^3$
Ang. Accel.	α	rad/s^2	Boltzmann Constant	k	$1.38 \times 10^{-23} \text{ J/K}$	Permeability	Eq. $1 \text{ H} = 1 \text{ Vs/A}$
Ang. Momentum	L	$\text{kg m}^2/\text{s}$	Gravitational Constant	G	$6.67 \times 10^{-11} \text{ m}^3/\text{kg s}^2$	Length	Angstrom $1 \text{ \AA} = 10^{-10} \text{ m}$
Ang. Velocity	ω	rad/s	Permeability of Space	μ_0	$4\pi \times 10^{-7} \text{ Vs/A}$		
Angle	θ	radian	Permittivity of Space	ϵ_0	$8.85 \times 10^{-12} \text{ C}^2/\text{Nm}$		
Capacitance	C	Farad F (C/V)					
Charge	Q, q	Coulomb C (A.s)					
Density	ρ	kg/m^3					
Displacement	x, d, s	meter - m					
Electric Field	E	V/m					
Electric Flux	Φ_E	V.m					
Electromotive Force (EMF)	$\mathcal{E}$	Volt - V					
Energy	E, U, K	Joule (J) $\text{kg m}^2/\text{s}^2$					
Entropy	S	J/K					
Force	F	Newton - N (kg.m/s ²)					
Frequency	f, ν	Hertz - Hz (cycles/s)					
Heat	Q	Joule - J					
Magnetic Field	B	Tesla (T) Vs/m^2					
Magnetic Flux	Φ_B	Weber (Wb) Vs					
Momentum	p	kg m/s					
Power	P	Watt - W (J/s)					
Pressure	P	Pascal - Pa (N/m ²)					
Resistance	R	Ohm (Ω) (V/A)					
Torque	τ	N.m					
Velocity	v	m/s					
Volume	V	m^3					
Wavelength	λ	meter - m					
Work	W	Joule - J (N.m)					



Synopsis

Essential tool for physics laws, concepts, variables and equations, including sample problems, common pitfalls and helpful hints.

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Well made and designed.

GREAT

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really worth having. I like it a lot.

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well organized, lots of information, a little too much at times to see what you are looking for since its so busy

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