

Property of \_\_\_\_\_

## Physics formula and constant page

*To be used only for the joy  
of  
solving physics problems*



$T_f = 9/5 T_c + 32$	$T_f =$	Temp. °F	$T = \frac{1}{f}$	T =	Period
$T_k = T_c + 273$	$T_c =$	Temp. °C		f =	Frequency
$Q = mc\Delta T$	$T_k =$	Temp. K	$T = 2\pi\sqrt{\frac{L}{g}}$	L =	Length of string
$Q = mL$	$Q =$	Heat		g =	Acceleration of gravity
$Q_1 + Q_2 + Q_3 + = 0$	$c =$	Specific heat capacity	$T = 2\pi\sqrt{\frac{m}{k}}$	m =	mass
	$L =$	Latent heat		k =	Spring constant
			$v = f\lambda$	$\lambda =$	wavelength
			$\frac{1}{p} + \frac{1}{q} = \frac{1}{focal}$	c =	Speed of light
				p =	Object distance
			$M = \frac{h'}{h} = -\frac{q}{p}$	q =	Image distance
				M =	Magnification
Atomic & Nuclear			$n = \frac{c}{v}$	h' =	Image height
$E = hf$	E =	Energy		h =	Object height
$KE_{max} = hf - hf_t$	h =	Planck's constant	$n_i \sin \theta_i = n_r \sin \theta_r$	n =	Index of refraction
$KE_{max} = hf - W$	f =	Frequency	$d \sin \theta = m\lambda$	$\theta_i =$	Angle of incident
$\lambda = \frac{h}{p} = \frac{h}{mv}$	KE =	Kinetic energy	$d \sin \theta = (m + \frac{1}{2})\lambda$	$\theta_r =$	Angle of reflection
$f = \frac{E}{h}$	$f_t =$	Frequency threshold	$\theta = 1.22 \frac{\lambda}{D}$	D =	Aperture width
	W =	Work function			
$E_o = mc^2$	$\lambda =$	de Broglie wavelength			
$E_{bind} = \Delta mc^2$	p =	Momentum			
	m =	Mass			
	v =	Velocity			
	E =	Energy			
	$E_o =$	Rest energy			
	c =	Speed of light			
	$E_{bind} =$	Binding energy			
	$\Delta m =$	Mass defect			