

# Physics

## Physical Constants

Quantity	Symbol	Value	Unit
speed of light	$c$	$2.99792458 \times 10^8$	$\text{m s}^{-1}$
Plank Constant	$h$	$6.62606876(52) \times 10^{-34}$	$\text{J s}$
electron mass	$m_e$	$9.10938188(72) \times 10^{-31}$	kg
proton mass	$m_p$	$1.67262158(13) \times 10^{-31}$	kg
neutron mass	$m_n$	$1.67492716(13) \times 10^{-31}$	kg

## Prefixes

Factor	Prefix	Symbol
$10^{24}$	yotta	Y
$10^{21}$	zetta	Z
$10^{18}$	exa	E
$10^{15}$	peta	P
$10^{12}$	tera	T
$10^9$	giga	G
$10^6$	mega	M
$10^3$	kilo	k
$10^2$	hecto	h
$10^1$	deka	da
$10^{-1}$	deci	d
$10^{-2}$	centi	c
$10^{-3}$	milli	m
$10^{-6}$	micro	$\mu$
$10^{-9}$	nano	n
$10^{-12}$	pico	p
$10^{-15}$	femto	f
$10^{-18}$	atto	a
$10^{-21}$	zepto	z
$10^{-24}$	yocto	y

## Physics Formulae

$$E = mc^2 \quad (1)$$