

Physical Science: Tables & Formulas

SI Base Units

Base Quantity	Unit Name	Unit Symbol
Amount of substance	mole	Mol
Electric current	ampere	A
Length	meter	m
Luminous intensity	candela	Cd
Mass	kilogram	Kg
Time	second	s
Temperature	Kelvin	K

SI Derived Units

Derived Quantity	Name (Symbol)	Expression in terms of other SI units	Expression in terms of SI base units
Area	Square meter (m^2)		
Volume	Cubic meter (m^3)		
Speed/velocity	Meter per second (m/s)		
Acceleration	Meter per second squared (m/s^2)		
Frequency	Hertz (Hz)		s^{-1}
Force	Newton (N)		$m \cdot kg \cdot s^{-2}$
Pressure, stress	Pascal (Pa)	N/m^2	$m^{-1} \cdot kg \cdot s^{-2}$
Energy, work, quantity of heat	Joule (J)	$N \cdot m$	$m^2 \cdot kg \cdot s^{-2}$
Power	Watt (W)	J/s	$m^2 \cdot kg \cdot s^{-3}$
Electric charge	Coulomb (C)	--	$s \cdot A$
Electric potential difference	Volt (V)	W/A	$m^2 \cdot kg \cdot s^{-3} \cdot A^{-1}$
Electric resistance	Ohm (Ω)	V/A	$m^2 \cdot kg \cdot s^{-3} \cdot A^{-2}$

Prefixes used to designate multiples of a base unit

Prefix	Symbol	Meaning	Multiple of base unit	Scientific Notation
tera	T	trillion	1, 000, 000, 000, 000	10^{12}
giga	G	billion	1, 000, 000, 000	10^9
mega	M	Million	1, 000, 000	10^6
kilo	k	Thousand	1, 000	10^3
centi	c	One hundredth	1/100 or .01	10^{-2}
milli	m	One thousandth	1/1000 or .001	10^{-3}
micro	u	One millionth	1/1000000 or .0000001	10^{-6}
Nano	n	One billionth	1/1000000000 or .000000001	10^{-9}
pico	p	One trillionth	1/1000000000000 or .000000000001	10^{-12}

In general, when converting from base units (m, l, g, etc) or derived units (m^2 , m^3 , m/s, Hz, N, J, V, etc) to a multiple greater (kilo, mega, giga, or tera) than the base or derived unit- then divide by the factor. For example: 10m = 10/1000km = 1/100 km = .01km.

Physical Science Formula Cheat Sheet

Ying-Ying Zheng

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

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