

SI Base Units	
Length (L)	meter (m)
Mass	Kilogram (kg)
Time	Second (s)
Electric Current (I)	Ampere (A)
Temperature	Kelvin (K)

Constants				
Name	Symbol	Value	Units	Base Units
Speed of light	c	3.000E8	m/s	m/s
Planck's constant	h	6.626E-34	J*s	(kg*m ²)/s
Avogadro's #	N _A or L	6.022E23	mol ⁻¹	mol ⁻¹
Gas Constant	R	8.314	J/(K*mol)	(kg*m ²)/(s ² *K*mol)

Quantity	Name	Symbol	Equivalents	SI base unit Equivalents
electric charge or quantity of electricity	coulomb	C	s·A F·V	s·A
electrical capacitance	farad	F	C/V s/Ω	(s ⁴ ·A ²)/(kg·m ²)
electrical conductance	siemens	S	1/Ω A/V	(s ³ ·A ²)/(kg·m ²)
electrical resistance	ohm	Ω	1/S V/A	(kg·m ²)/(s ³ ·A ²)
energy, work, heat	joule	J	N·m C·V W·s	(kg·m ²)/s ²
force, weight	newton	N	kg·m/s ²	(kg·m)/s ²
frequency	hertz	Hz	1/s	s ⁻¹
magnetic field strength	tesla	T	V·s/m ² Wb/m ² N/(A·m)	kg/(s ² ·A)
power	watt	W	J/s V·A	(kg·m ²)/s ³
pressure	pascal	Pa	N/m ²	kg/(m·s ²)
temperature relative to 273.15 K	degree Celsius	°C	K	K
voltage, electrical potential difference, electromotive force	volt	V	W/A J/C	(kg·m ²)/(s ³ ·A)