

INTERNATIONAL SYSTEM OF UNITS (SI)

Base units of SI		
Unit	Symbol	Measured properties
meter	m	length
kilogram	kg	mass
second	s	time
ampere	A	electric current
Kelvin	K	thermodynamic temperature
mole	mol	amount of substance
candela	cd	luminous intensity

Derived units with special names		
Unit	Symbol	Measured properties
Becquerel	Bq	activity
Coulomb	C	electric charge, quantity of electricity
degree Celsius	°C	Celsius temperature
Farad	F	capacitance
Gray	Gy	absorbed dose, specific energy imparted, absorbed dose index
Henry	H	inductance
Hertz	Hz	frequency
Joule	J	energy, work, quantity of heat
Katal	kat	catalytic activity
Lumen	lm	luminous flux
Lux	lx	illuminance
Newton	N	force
Ohm	Ω	electric resistance
Pascal	Pa	pressure, stress
Siemens	S	electric conductance
Sievert	Sv	dose equivalent, dose equivalent index
Tesla	T	magnetic flux density
Volt	V	electric potential, potential difference, electromotive force
Watt	W	power, radiant flux
Weber	Wb	magnetic flux

Supplementary units in SI		
Unit	Symbol	Measured properties
radian	rad	plane angle
steradian	sr	solid angle

Prefixes in SI		
Prefix	Symbol	Meaning
yotta-	Y	$10^{24} = 1\,000\,000\,000\,000\,000\,000\,000\,000 = 1$ septillion
zeta-	Z	$10^{21} = 1\,000\,000\,000\,000\,000\,000\,000\,000 = 1$ sextillion
exa-	E	$10^{18} = 1\,000\,000\,000\,000\,000\,000\,000 = 1$ quintillion
peta-	P	$10^{15} = 1\,000\,000\,000\,000\,000\,000 = 1$ quadrillion
tera-	T	$10^{12} = 1\,000\,000\,000\,000 = 1$ trillion
giga-	G	$10^9 = 1\,000\,000\,000 = 1$ billion
mega-	M	$10^6 = 1\,000\,000 = 1$ million
kilo-	k	$10^3 = 1\,000 = 1$ thousand
hecto-	h	$10^2 = 100 = 1$ hundred
deka-	da	$10^1 = 10 =$ ten
-		$10^0 = 1 =$ one
deci-	d	$10^{-1} = 0.1 =$ a tenth of a
centi-	c	$10^{-2} = 0.01 =$ a hundredth of a
milli-	m	$10^{-3} = 0.001 =$ a thousandth of a
micro-	μ	$10^{-6} = 0.000\,001 =$ a millionth of a
nano-	n	$10^{-9} = 0.000\,000\,001 =$ a billionth of a
pico-	p	$10^{-12} = 0.000\,000\,000\,001 =$ a trillionth of a
femto-	f	$10^{-15} = 0.000\,000\,000\,000\,001 =$ a quadrillionth of a
atto-	a	$10^{-18} = 0.000\,000\,000\,000\,000\,001 =$ a quintillionth of a
zepto-	z	$10^{-21} = 0.000\,000\,000\,000\,000\,000\,001 =$ a sextillionth of a
yocto-	y	$10^{-24} = 0.000\,000\,000\,000\,000\,000\,000\,001 =$ a septillionth of a