Orders of Magnitude

10^{12}	10^{9}	10^{6}	10^{3}	10^{2}	10^{1}	10^{0}	10^{-1}	10^{-2}	10^{-3}	10^{-6}	10^{-9}	10^{-12}	10^{-15}
tera	giga	mega	kilo	hecto	deca	No prefix	deci	centi	milli	micro	nano	pico	femto
T	G	M	k	h	da		d	c	m	μ	n	p	f

Units of Measurement

SI base units are highlighted

Quantity	**Unit (Symbol)**	**Notes**
Acceleration	meters per second per second (m/s^2)	also m/s/s or $m \cdot s^{-2}$
Activity	becquerel (Bq)	$1/s = s^{-1}$
Capacitance	farad (F)	$C/V = kg^{-1} \cdot m^{-2} \cdot s^4 \cdot A^2$
Current	ampere (A)	
Electric Charge	coulomb (C)	$A \cdot s$
Electric Potential	volt (V)	$W/A = kg \cdot m^2 \cdot s^{-3} \cdot A^{-1}$
Energy	calorie (cal)	metric unit
Energy/Work	joule (J)	$J = kg \cdot m^2 \cdot s^{-2}$
Force	newton (N)	$N = kg \cdot m \cdot s^{-2}$
Frequency	hertz (Hz)	$waves/s = 1/s = s^{-1}$
Inductance	henry (H)	$kg \cdot m^2 \cdot s^{-2} \cdot A^{-2}$
Length	meter (m)	
Luminous Intensity	candela (cd)	

Quantity	**Unit (Symbol)**	**Notes**
Magnetic Field	tesla (T)	$T = kg \cdot s^{-2} \cdot A^{-1}$
Magnetic Flux	weber (Wb)	$Wb = kg \cdot m^2 \cdot s^{-2} \cdot A^{-1}$
Mass	gram (g)	Base unit is the kilogram (1000 g)
Momentum	newton second (N·s)	$N \cdot s = kg \cdot m \cdot s^{-1}$
Power	watt (W)	$J/s = kg \cdot m^2 \cdot s^{-3}$
Pressure	pascal (Pa)	$Pa = N/m^2 = kg \cdot m \cdot s^{-2}$
Quantity	mole (mol)	
Resistance	ohm (Ω)	$V/A = kg \cdot m^2 \cdot s^{-3} \cdot A^{-2}$
Temperature	degree Celsius (°C)	Metric unit based on T_f and T_b for water
Temperature	kelvin (K)	
Time	second (s)	
Velocity	meter per second (m/s)	
Volume	liter (L)	$1\ L = 1\ dm^3 = 0.001\ m^3$