

SI (metric) measurement system and the US traditional Equivalents
 You are expected to memorize the boldface prefixes and their values.

tera (T)	10^{12}	1,000,000,000,000
giga (G)	10^9	1,000,000,000
mega (M)	10^6	1,000,000
kilo (k)	10^3	1,000
hecto (h)	10^2	100
deka (da)	10^1	10
base (none)	10^0	1
deci (d)	10^{-1}	0.1
centi (c)	10^{-2}	0.01
milli (m)	10^{-3}	0.001
micro (μ)	10^{-6}	0.000 001
nano (n)	10^{-9}	0.000 000 001
pico (p)	10^{-12}	0.000 000 000 001
femto (f)	10^{-18}	0.000 000 000 000 001
atto (a)	10^{-21}	0.000 000000 000 000 001

SI base units

US traditional units

mass - kilogram (kg)	slug, blob
length/distance - meter (m)	inch (in), foot (ft), yard (yd), mile (mi)
time - second (s)	second (s), minute (min), hour (h)
temperature - kelvin (K)	Rankine (R)
- centigrade/Celsius ($^{\circ}$ C)	Fahrenheit ($^{\circ}$ F)
energy - joule (J)	calorie (cal), Calorie (Cal)
- electron volt (eV)	
force - newton (N)	pound (lb)
pressure - pascal (Pa)	pounds per square inch (psi), inches of Mercury (in Hg)
charge - coulomb (C)	coulomb (C)
area - square meter (m^2)	square foot (ft^2)
volume - cubic meter (m^3)	cubic foot (ft^3)
- liter (L)	ounce (oz), pint (pt), quart (qt), gallon (gal)
power - watt (W)	horsepower (hp)

Equivalents for your use. Feel free to add your own as needed.

1 in = 2.54 cm	1 gal = 3.78 L	1 lb = 4.448 N	1 m = 3.28 ft
1 mi = 5280 ft	1 m = 39.37 in	1 hp = 746 W	1 mi = 1.61 km
1 slug = 14.6 kg	1 hp = 746 W	1 eV = 1.6×10^{-19} J	1 Cal = 4184 J
1 blob = 12 slug	1 psi = 6894.8 Pa	1 in Hg = 3386.4 Pa	