

Commonly Used SI Units			Commonly Used Imperial Units		
Length μm = micrometer* mm = millimeter* cm = centimeter* m = meter km = kilometer*	Mass and Force mg = milligram* g = gram* kg = kilogram N = newton*	Time s = <i>second</i> min = minute* h = hour* d = day*	Length ft = foot in = inch mi = mile yard = yard	Mass and Force lb = pound oz = ounce gr = grain ton = ton	Time h = hour min = minute s = second
Area m^2 = square meter* hectare = hectare*	Volume mL = milliliter* L = liter m^3 = cubic meter*	Energy J = joule*	Area acre = mi^2 = square mile ft^2 = square foot in^2 = square inch	Volume gal = gallon qt = quart cup = cup tsp = teaspoon	Energy cal = calorie ft·lb = foot-pound
		Pressure Pa = Pascal*			Pressure atm = atmosphere bar = bar
Units marked with an asterisk (*) are derived SI units					

Power Prefixes				
Prefix	Symbol	Name	Multiplier	Power of 10
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
hector-	h-	Hundred	100	10^2
deca-	da-	Ten	10	10^1
deci-	d-	Tenth	0.1	10^{-1}
centi-	c-	Hundredth	0.01	10^{-2}
milli-	m-	Thousandth	0.001	10^{-3}
micro-	μ -	Millionth	0.000001	10^{-6}
nano-	n-	Billionth	0.000000001	10^{-9}
pico-	p-	Trillionth	0.000000000001	10^{-12}

Important Conversion Relationships		
Length 1 ft = 0.3048 m = 12 in 1 yard = 3 ft 1 in = 2.54 cm 1 m = 100 cm 1 mi = 5280 ft = 1609.3 m 1 km = 1000 m = 0.62137 mi	Mass and Force 1 kg = 2.2046 lb 1 lb = 16.0 oz 1 N = 0.22481 lb 6 tsp (fluid) = 1 oz = 28.350 g 1 gr = 64.799 mg	Time 1 d = 1440 min = 86,400 s 1 h = 60 min = 3600 s 1 min = 60 s
Area 1 acre = 43,560 ft^2 1 hectare = 10,000 m^2 1 hectare = 2.471 acre	Volume 1 gal = 4 qt = 128 oz = 16 cup 1 gal = 3.7854 L 1 L = 1000 ml = 1000 cm^3 1 tsp = 4.9290 mL	Energy 1 J = 0.23885 cal 1 J = 0.73756 ft·lb 1 cal = 3.088 ft·lb
		Pressure 1 atm = 1.0133 bar = 14.6959 psi 1 atm = 101,330 Pa = 101.33 kPa