

SCIENTIFIC UNIT CONVERSION CHART

SI Metric Prefixes

Prefix	Symbol	Factor	Power of 10
Giga-	G	1,000,000,000	10 ⁹
Mega-	M	1,000,000	10 ⁶
Kilo-	k	1,000	10 ³
Base	-	1	10 ⁰
Centi-	c	0.01	10 ⁻²
Milli-	m	0.001	10 ⁻³
Micro-	μ	0.000001	10 ⁻⁶
Nano-	n	0.000000001	10 ⁻⁹

Length

1 in	2.54 cm
1 ft	0.3048 m
1 mi	1.6093 km
1 Å... (Angstrom)	10 ⁻¹⁰ m

Mass & Weight

1 lb	453.59 g
1 oz	28.35 g
1 kg	2.2046 lb

1 amu	$1.6605 \times 10^{-27} \text{ kg}$
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Volume

1 mL	1 cm^3
1 L	1.0567 qt
1 gal	3.7854 L
1 ft^3	28.317 L

Temperature

Celsius to Kelvin	$K = C + 273.15$
Fahrenheit to Celsius	$C = (F - 32) / 1.8$
Celsius to Fahrenheit	$F = (C \times 1.8) + 32$

Pressure

1 atm	760 mmHg (torr)
1 atm	101,325 Pa
1 bar	10^5 Pa

Energy

1 cal	4.184 J
1 eV	$1.602 \times 10^{-19} \text{ J}$
1 BTU	1055 J