

# Common Conversion Factors

## A. Length

1000 Millimeters (mm)	= 1 Meter
100 Centimeters (cm)	= 1 Meter
1000 Meters	= 1 Kilometer (km)
1 inch (in)	= 2.54 cm
1 mile	= 1.609 km
1 meter	= 39.37 in

## B. Volume

1000 Centimeters Cubed (cm <sup>3</sup> )	= 1000 Milliliters (mL) = 1000 Cubic Centimeters (cc) = 1 Liter (L)
1 Meter Cubed	= 1,000,000 cm <sup>3</sup> = 1000 Liters
1 Foot Cubed	= 28.32 Liters
1 Liter	= 1.057 Quarts (qt)

## C. Mass

1000 Grams (g)	= 1 Kilogram (kg)
1000 Milligrams (mg)	= 1 gram
1 Pound (lb)	= 453.6 grams
1 Gram	= .03527 Ounces (oz)
1 Ounce	= 28.3 grams

## D. Temperature

Celsius to Fahrenheit	→ ("x" °C x 1.80) + 32 = "x" °F
Fahrenheit to Celsius	→ ("x" °F - 32) / 1.8 = "x" °C
Celsius to Kelvin (K)	→ °C + 273

## E. Energy

1 calorie (cal)	= 4.184 Joules (J)
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## F. Prefixes

PREFIX	UNIT	FACTOR
Giga-	G	10 <sup>9</sup>
Mega-	M	10 <sup>6</sup>
Kilo-	k	10 <sup>3</sup>
BASE UNIT	---( m, L, g, etc.)---	10 <sup>0</sup>
Deci-	d	10 <sup>-1</sup>
Centi-	c	10 <sup>-2</sup>
Milli-	m	10 <sup>-3</sup>
Micro-	μ	10 <sup>-6</sup>
Nano-	n	10 <sup>-9</sup>
Pico-	p	10 <sup>-12</sup>
Femto-	f	10 <sup>-15</sup>





# CONVERSIONS LIST

## METRIC LENGTH

- 1 m = 10 dm
- 1 m = 100 cm
- 1 m = 1000 mm
- 1 km = 1000 m
- 1 hm = 100 m
- 1 dam = 10 m
- 1 cm = 10 mm

## METRIC MASS

- 1 g = 10 dg
- 1 g = 100 cg
- 1 g = 1000 mg
- 1 kg = 1000 g
- 1 hg = 100 g
- 1 dag = 10 g
- 1 cg = 10 mg

## METRIC VOLUME

- 1 L = 10 dL
- 1 L = 100 cL
- 1 L = 1000 mL
- 1 kL = 1000 L
- 1 hL = 100 L
- 1 daL = 10 L
- 1 cL = 10 mL

## ENGLISH/ENGLISH CONVERSIONS

- 1 ft = 12 in
- 1 yd = 3 ft
- 1 mi = 5280 ft
- 1 lb = 16 oz
- 1 ton = 2000 lbs
- 1 pt = 16 fl. oz.
- 1 qt = 2 pts
- 1 gal = 4 qts

## ENGLISH/METRIC CONVERSIONS

- 1 in = 2.54 cm
- 1 mi = 1.6 km
- 1 in = 0.0254 m
- 1 oz = 28 g
- 1 tsp = 5 mL
- 1 Tbsp = 15 mL
- 1 in<sup>3</sup> = 16 mL
- 1 gal = 3.8 L
- 1 fl. oz. = 30 mL
- 1 m = 3.3 ft
- 1 m = 1.1 yd
- 1 kg = 2.2 lbs
- 1 L = 2.1 pt
- 1 L = 1.06 qt
- 1 mL = 1 cm<sup>3</sup>

