

Convert Metric System

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**Metric Measurements**

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Metric Prefixes

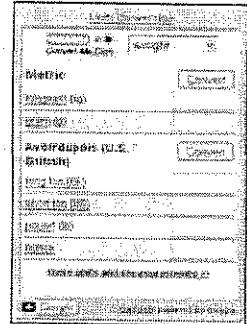
Metric prefixes are pretty easy to understand and very handy for metric conversions. You don't have to know the nature of a unit to convert, for example, from *kilo-unit* to *mega-unit*. All metric prefixes are powers of 10. The most commonly used prefixes are highlighted in the table.

Prexis	Symbol	Factor
yotta	Y	$10^{24} = 1,000,000,000,000,000,000,000,000$
zetta	Z	$10^{21} = 1,000,000,000,000,000,000,000,000$
exa	E	$10^{18} = 1,000,000,000,000,000,000,000$
peta	P	$10^{15} = 1,000,000,000,000,000,000$
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	$10^1 = 10$
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	$10^{-15} = 0.000,000,000,000,001$
atto	a	$10^{-18} = 0.000,000,000,000,000,001$
zepto	z	$10^{-21} = 0.000,000,000,000,000,000,001$
yocto	y	$10^{-24} = 0.000,000,000,000,000,000,000,001$

Most people even in the countries where metric system is used only know the most important metric prefixes like 'kilo' and 'milli'. They are very handy for understanding metric conversions. The prefixes like 'zepto' or 'yotta' are very

Translation

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UNITS OF MEASUREMENT

Units of length

- 1 meter = 100 centimeters (cm) = 1000 millimeters
- 1 kilometer 1000 meters = 0.6214 miles
- 1 meter = 39.37 inches = 1.094 yards
- 1 Angstrom = 10^{-8} centimeters
- 1 mile = 5,280 ft
- 1 inch = 2.54 cm

Units of mass

- 1 gram = 1000 milligrams (mg)
- 1 kilogram = 1000 grams
- 1 gram = .03527 ounces
- 1 ounce = 28.35 grams
- 1 kilogram = 2.2 pounds
- 1 pound = 454 grams
- 1 ton = 2000 pounds
- 1 gram = 10^6 μ g (micro)
- 1 gram = 10^9 nanograms (ng)
- 1 gram = 10^{12} picograms
- 16 oz = 1 pound

Units of volume

- 1 liter = 1000 milliliters (ml) = 1000.028 cubic centimeter
(for practical purposes 1ml = 1cc)
- 1 liter = 1.056 liquid quarts
- 1 gallon = 3.781 liters
- 2 c = 1 pt
- 2 pt = 1 qt
- 4 qt = 1 gal
- DH₂O = 1 g/mL
- 1 dm³ = 1L
- (10cm*10cm*10cm) = 1000cm³

1 gm = 1 ml = 1 cm³
only for water

1 ml = 1 cm³
always