

Conversion Data Sheet

English Conversions

Length

12 inches = 1 foot

3 feet = 1 yard

1760 yards = 1 mile

5280 feet = 1 mile

Weight

16 oz. = 1 lb

2000 lb = 1 ton

Liquid Measure

4 quarts = 1 gallon

Pressure

1 atm = 14.7 psi

1 atm = 760 torr

Metric Conversions

Metric Prefixes

1 kilo = 1000 base

1 hecto = 100 base

1 deka = 10 base

BASE = meters (m), liters (L),
seconds(s), grams (g)

10 deci = 1 base

100 centi = 1 base

1000 milli = 1 base

OR

1 kilo = 1000 base

1 hecto = 100 base

1 deka = 10 base

BASE = meters (m), Liters (L),
seconds (s), grams (g)

1 deci = .1 base

1 centi = .01 base

1 milli = .001 base

Volume

1 cu cm (cc/cm³) = 1 mL

1 L = 1000 cc/cm³

English ↔ Metric Conversions

Length

1 inch = 2.54 cm

1 foot = 30.5 cm

1 yard = 0.914 m

1 mile = 1.61 km

Mass (Weight)

1 oz = 28.3 g

1 lb = 454 g

1 lb = 0.454 kg

Volume

1 fl oz = 29.6 mL

1 pint = 0.473 L

1 quart = 0.946 L

1 gallon = 3.79 L

Water Volume

1 mL = 1 cm³ = 1 g

Temperature Conversions

K = C + 273

C = 5/9 (F - 32)

F = 1.8C + 32

Adapted Conversion Data Sheet

English Conversions	Metric Conversions	English ↔ Metric Conversions
<u>Length</u> $\frac{12 \text{ inches}}{1 \text{ foot}}$ $\frac{3 \text{ feet}}{1 \text{ yard}}$ $\frac{1760 \text{ yards}}{1 \text{ mile}}$ $\frac{5280 \text{ feet}}{1 \text{ mile}}$ <u>Weight</u> $\frac{16 \text{ oz}}{1 \text{ lb}}$ $\frac{2000 \text{ lb}}{1 \text{ ton}}$ <u>Liquid Measure</u> $\frac{4 \text{ quarts}}{1 \text{ gallon}}$ <u>Pressure</u> $\frac{1 \text{ atm}}{14.7 \text{ psi}}$ $\frac{1 \text{ atm}}{760 \text{ torr}}$	<u>Metric Prefixes</u> $\frac{1 \text{ kilo}}{1000 \text{ base}}$ $\frac{1 \text{ hecto}}{100 \text{ base}}$ $\frac{1 \text{ deka}}{10 \text{ base}}$ $\frac{1 \text{ base}}{1 \text{ base}}$ $\frac{10 \text{ deci}}{1 \text{ base}}$ $\frac{100 \text{ centi}}{1 \text{ base}}$ $\frac{1000 \text{ milli}}{1 \text{ base}}$ BASE = meters (m), liters (L), seconds(s), grams (g) <u>Volume</u> $\frac{1 \text{ cu cm } (\frac{\text{cc}}{\text{cm}^3})}{1 \text{ mL}}$ $\frac{1 \text{ L}}{1000 \frac{\text{cc}}{\text{cm}^3}}$	<u>Length</u> $\frac{1 \text{ inch}}{2.54 \text{ cm}}$ $\frac{1 \text{ foot}}{30.5 \text{ cm}}$ $\frac{1 \text{ yard}}{0.914 \text{ m}}$ $\frac{1 \text{ mile}}{1.61 \text{ km}}$ <u>Mass (Weight)</u> $\frac{1 \text{ oz}}{28.3 \text{ g}}$ $\frac{1 \text{ lb}}{454 \text{ g}}$ $\frac{1 \text{ lb}}{0.454 \text{ kg}}$ <u>Water Volume</u> $1 \text{ mL} = 1 \text{ cm}^3 = 1 \text{ g}$ <u>Temperature Conversions</u> $K = C + 273$ $C = 5/9 (F - 32)$ $F = 1.8C + 32$