Unit Conversion Tables

D.G. Simpson, Ph.D.
Department of Physical Sciences and Engineering
Prince George's Community College

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Time

1 day = 24 hours = 1440 minutes = 86400 seconds
1 hour = 60 minutes = 3600 seconds
1 year = 31 557 600 seconds $\approx \pi \times 10^7$ seconds

Length

1 mile = 8 furlongs = 80 chains = 320 rods = 1760 yards = 5280 feet = 1.609344 km
1 yard = 3 feet = 36 inches = 0.9144 meter
1 foot = 12 inches = 0.3048 meter
1 inch = 2.54 cm
1 nautical mile = 1852 meters = 1.15077944802354 miles
1 fathom = 6 feet
1 parsec = 3.26156376188 light-years = 206264.806245 AU = $3.08567756703 \times 10^{16}$ meters
1 ångström = 0.1 nm = 10^5 fermi = 10^{-10} meter

Mass

1 kilogram = 2.20462262184878 lb
1 pound = 16 oz = 0.45359237 kg
1 slug = 32.1740485564304 lb = 14.5939029372064 kg
1 short ton = 2000 lb
1 long ton = 2240 lb
1 metric ton = 1000 kg

Velocity

15 mph = 22 fps
1 mph = 0.44704 m/s
1 knot = 1.15077944802354 mph = 0.514444444444444 m/s

Area

1 acre = 43560 ft^2 = 4840 yd^2 = 4046.8564224 m^2
1 $mile^2$ = 640 acres = 2.589988110336 km^2
1 hectare = 10^4 m^2 = 2.47105381467165 acres

Volume

1 liter = 1 $dm^3 \approx$ 1 quart
1 m^3 = 1000 liters
1 cm^3 = 1 mL
1 ft^3 = 1728 in^3 = 7.48051948051948 gal = 28.316846592 liters
1 gallon = 231 in^3 = 4 quarts = 8 pints = 16 cups = 3.785411784 liters
1 cup = 8 floz = 16 tablespoons = 48 teaspoons
1 tablespoon = 3 teaspoons = 4 fluidrams
1 dry gallon = 268.8025 in^3 = 4.40488377086 liters
1 imperial gallon = 4.54609 liters
1 bushel = 4 pecks = 8 dry gallons

Density

1 g/cm^3 = 1000 kg/m^3 = 8.34540445201933 lb/gal = 1.043175556502416 lb/pint

Force

1 lbf = 4.44822161526050 newtons
1 newton = 10^5 dynes

Energy

1 calorie = 4.1868 joules
1 BTU = 1055.05585262 joules
1 ft-lb = 1.35581794833140 joules
1 kW-hr = 3.6 MJ
1 eV = $1.602176487 \times 10^{-19}$ joules
1 joule = 10^7 ergs

Power

1 horsepower = 745.69987158227022 watts

Angle

rad = deg $\times \frac{\pi}{180}$ deg = rad $\times \frac{180}{\pi}$
1 deg = 60 arcmin = 3600 arcsec

Temperature

$°C = (°F - 32) \times \frac{5}{9}$ $°F = \left(^\circ C \times \frac{9}{5}\right) + 32$
$K = °C + 273.15$
$°R = °F + 459.67$

Pressure

1 atm = 101325 Pa = 1013250 dyne/cm^2 = 1013.25 millibar = 760 torr
= 760 mmHg = 29.9212598425197 inHg = 14.6959487755134 psi
= 2116.21662367394 lb/ft^2 = 1.05810831183697 ton/ft^2