

Physics Formula & Conversions Resource

$$\text{Velocity} = \frac{\text{displacement}}{\text{time}}$$

$$v = \frac{d}{t}$$

$$\text{Acceleration} = \frac{\text{change in velocity}}{\text{Time}}$$

$$a = \frac{\Delta v}{t}$$

Conversion Factors

1 inch (in or ") = 2.54 centimeters (cm)

1 foot (ft or ') = 30.48 centimeters (cm)

1 mile (mi) = 5,280 feet (ft)

1 mile (mi) = 1760 yards (yd)

1 mile (mi) = 1609.34 meters (m)

1 mile (mi) = 1.60934 kilometers (km)

1 gallon (gal) = 3.78541 liters (L)

1 gallon (gal) = 4 quarts (qts)

1 gallon (gal) = 128 fluid ounces (fl oz)

1 quart (qt) = 2 pints (pt)

1 pint (pt) = 2 cup (C)

1 cup (c) = 8 fluid ounces (fl oz)

1 pound (lb) = 16 ounces (oz)

1 pound (lb) = 453.592 grams (g)

1 ton = 2000 pounds (lbs)

1 metric ton = 1000 kilograms (kg)

1 metric ton = 2205 pounds (lbs)

1 pound/gallon (lb/gal) = 119826.4273 ppm

Symbol	Prefix	Magnitude	Value
T	tera	10¹²	Trillion
G	giga	10⁹	Billion
M	mega	10⁶	Million
k	kilo	10³	Thousand
c	centi	10⁻²	Hundredth
m	milli	10⁻³	Thousandth
μ	micro	10⁻⁶	Millionth
N	nano	10⁻⁹	Billionth