

CHM 090 List of Conversion Factors

- Length

- 1000 mm = 1 m
- 100 cm = 1 m
- 1000 m = 1 km
- 12 inch = 1 foot
- 3 feet = 1 yard
- 5280 feet = 1 mile
- 2.54 cm = 1 inch

Rules for Sig figs

1. Numbers 1-9 always count.
4895.2 has 5 sig figs
2. Zeroes in front never count.
0.0005454 has 4 sig figs
3. Zeroes after decimal point AND after a # count.
0.0880 has 3 sig figs
28500 has 3 sig figs
4. Zeroes between sig digits count.
3050 has 3 sig fig
0.002001 has 4 sig fig

- Mass

- 1000 mg = 1 g
- 1000 g = 1 kg
- 1 pound (lb) = 16 ounces (oz)
- 2000 lb = 1 ton
- 1 pound = 454 g
- 1 kg = 2.2 lbs

- Volume

- 1000 mL = 1 L
- 1 mL = 1 cc = 1 cm³
- 1 pint (pt) = 2 cups (c)
- 1 quart (qt) = 2 pts
- 1 gallon (gal) = 4 qts
- 1 qt = 946 mL
- 1 cup = 8 fluid ounces

- Units

- m = meter, mm = millimeter, cm = centimeter, km = kilometer
- g = gram, mg = milligram, kg = kilogram
- L = liter, mL = milliliter
- oz = ounces
- lb = pound
- cc = cubic centimeter
- gal = gallons
- qt = quarts
- pt = pints
- c = cups
- s = second
- min = minutes
- hr = hours