

## Chemistry Conversion Sheet

### English System

#### **Length**

12 in = 1 ft  
3 ft = 1 yard  
5280 ft = 1760 yards = 1 mile

#### **Volume**

2 cups = 1 pt  
2 pts = 1 qt  
4 qts = 1 gal

#### **Weight**

16 ozs = 1 lb  
2000 lbs = 1 ton

### Metric System

#### **Length**

10 cm = 1 dm  
100 cm = 1 meter  
1000 mm = 1 meter  
1000 meters = 1 km  
 $1 \times 10^6 \mu\text{m} = 1 \text{ meter}$   
 $1 \times 10^{10} \text{ \AA} = 1 \text{ meter}$

#### **Volume**

$1000 \text{ cm}^3 = 1 \text{ dm}^3$   
 $1 \text{ dm}^3 = 1 \text{ liter}$   
1000 ml = 1 liter  
 $1 \times 10^6 \mu\text{l} = 1 \text{ liter}$   
 $1 \text{ cm}^3 = 1 \text{ ml}$

#### **Weight**

1000 mg = 1 g  
1000 g = 1 kg  
 $1 \times 10^6 \mu\text{g} = 1 \text{ g}$

$1 \text{ cm}^3 = 1 \text{ ml} = 1 \text{ g}$  (if its water)

### English to Metric Conversions

#### **Length**

1 in = 2.54 cm (exact)  
1 meter = 39.37 in  
1 mile = 1.6 km

#### **Volume**

1 liter = 1.06 qts

#### **Weight**

1 kg = 2.2 lbs  
1 oz = 28.4 grams