

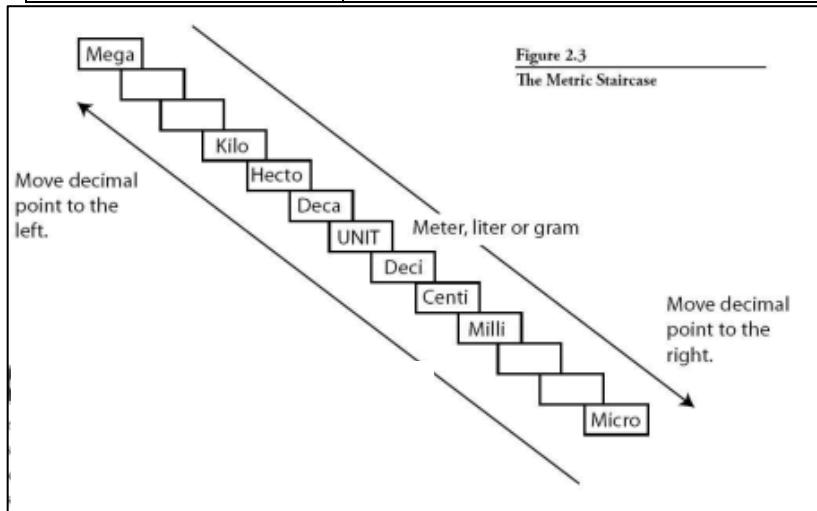
Capacity and Volume			
SI to Imperial	Imperial to SI	Imperial system	SI
1 mL = 0.033814 fl oz 1 L = 33.814 fl oz 1 L = 0.879877 qt 1 L = 0.219969 gal	1 fl oz = 29.5735 mL 16 fl oz = 1 pt = 0.473176 L 1 qt = 2 pt = 1.13652 L 1 gal = 4 qt = 4.54609 L	4 quarts = 1 gallon 1 quart = 4 cups 2 pints = 1 quart 2 cups = 1 pint 1 American gallon = 3.78541 L 1 pint = 16 fluid ounces 1 oz = 2 Tbsp 1 US Gallon = 128 oz 1 US Bushel = 9.3091 US Gallons 1 US Bushel = 37.236 Quarts	1 L = 1 m³ or 1000 cm³ 1 British gallon = 4.54609 L 4 quarts = 1 gallon

Common Volume Cooking Units		
Imperial to SI	Imperial to SI	Imperial to SI
$\frac{1}{4}$ tsp = 1.23223 (or ≈ 1.25 mL) $\frac{1}{2}$ tsp = 2.46446 (or ≈ 2.5 mL) 1 tsp = 4.92892 (or ≈ 5 mL) 1 tbsp = 3 tsp = 15 mL	$\frac{1}{4}$ cup = 59.14706 (or ≈ 60 mL) $\frac{1}{2}$ cup = 118.294 (or ≈ 125 mL) 1 cup = 236.588 (or ≈ 250 mL)	1 pint = 568.2614 mL 1 qt = 2 pt = 1.1365 L

Mass			
Imperial to SI	SI to Imperial	Imperial to SI	SI to Imperial
1 American ton (ta) = 2000 pounds = a small car 1 pound (lb) = 0.453592 kg = a guinea pig 1 ounce (oz) = 28.349.5 mg = a slice of bread 16 ounces (oz) = 1 pound = 4 bananas	1 metric ton (t) = 1000 kg = a hippopotamus 1 kilogram (kg) = 1000 g = 2.2 pounds = 1L bottle of water 1 gram (g) = 1000 mg = 0.035274 oz = a large paper clip 1 milligram (mg) = 0.001 g = 0.000035274 oz = a feather	1 pint = 568.2614 mL 1 qt = 2 pt = 1.1365 L	--- 1 ton 1 ton 1 ton 1 ton
Conversions between Cubic Units			Imperial to SI
<b>SI to Imperial</b> 1 ft³ = 1728 in³ 1 yd³ = 27 ft³	<b>Imperial to SI</b> 11 yd³ = 0.76455 m³ 1 mi³ = 4.1678 km³		

REAL LIFE Estimated Conversions of Volume and Weight					
Material	Volume	Estimated weight	Volume	Weight	
Water	1 ft³	≈ 62 lbs 8 oz	1 bushel = 2220 inches³	---	
Printer paper	1 yd³	≈ 655 lbs	45.93 bushels of barley	1 ton	
Glass bottles (whole)	1 yd³	≈ 500 to 700 lbs	36.74 bushels of wheat	1 ton	
Glass bottles (crushed)	1 yd³	≈ 1800 to 2700 lbs	39.37 bushels of flax	1 ton	
Tin can (whole)	1 yd³	≈ 150 lbs	64.84 bushels of oats	1 ton	

Shape	Volume
rectangular prism	$V = lwh$



**Conversion Formulas:**

**Celsius to Fahrenheit:**

$$F = \frac{9}{5}C + 32$$

**Fahrenheit to Celsius:**

$$C = \frac{5}{9}(F - 32)$$

Temperature		
SI to Imperial	Imperial to SI	
$C = \frac{5}{9}(F - 32)$	$F = \frac{9}{5}C + 32$	
Equivalents in degrees Fahrenheit and Celsius	°F	°C
Very cold temperature	-22	-30
Moderate temperature	59	15
Hot temperature	81	27
Normal body temperature	98.6	37
Boiling water	212	100