Chemistry 111 Chapter 1 Cheat Sheet

by Xyloswagg96 via cheatography.com/30111/cs/15872/

Both Systems

1 Foot=12 Inches = 0.33= 5280 Miles	
1 gallon = 4 quarts= 8 pints = 16 cups = 32 fluid ounces	
1 pound = 16 ounces	
200 pounds=ton	
Kilo Deca Unit Deci Centi Milli Micro nano pico	

Conversions from Imperial to Metric

1 Pound =	454 g
1 yd =	0.914 m
1 qt =	0.946 L

Significant Figure Rules

Nonzero=	Significant
Indepe-ndent of Decimal =	73.14 = 4 SF
Zeros inbetween nonzeros =	Significant: 60.052 = 5 SF
Trailing Zeros con Decimal =	Significant: 4.70 = 3 SF: 100= 1SF but 100. = 3 SF

Scientific Notation Rules

Convert # >1 =	OG Dec Goes <-
Convert # >1 =	Multiply 10^x
Convert # <1 =	OG Dec goes ->
Convert # <1 =	Multiply 10^-x

Multiplying & Dividing Sig Fig

Fewest SF =	# used

Adding & Subtracting SigFig

Least # after Dec =	Sig Fig
Ex: 2.55+2.5=	5.0
Sig Fig right of Dec=	Right of Sig fig

Adding & Subtracting Sci Nota

Convert to	standard form
Make Exponents	similar

Conversions Between F,C, & K

F to C=	(F-32)/(5/9)
C to F=	(9/5)C+31
C to K	C+273.15

Energy Conversions

1 calorie=	4.18 Joules (J)
kcal=	1 Calorie= 1000 calories

Calculating Density

Density=	m/V

Calculating Density

Density=	m/V

Specific Gravity

Specific Gravity=	Density of object/Density of water



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