Periodic Table of the Elements

Period	1 IA	2 IIA		3 IIIB	4 IVB	5 VB	6 VIB	7 VIIB	8 VIIIB	9 VIIIB	10 VIIIB	11 IB	12 IIB	13 IIIA	14 IVA	15 VA	16 VIA	17 VIIA	18 VIIIA
1	1 H 1.008																		2 He 4.003
2	3 Li 6.939	4 Be 9.012												5 B 10.81	6 C 12.01	7 N 14.01	8 O 16.00	9 F 19.00	10 Ne 20.18
3	11 Na 22.99	12 Mg 24.31												13 Al 26.98	14 Si 28.09	15 P 30.97	16 S 32.07	17 Cl 35.45	18 Ar 39.95
4	19 K 39.10	20 Ca 40.08		21 Sc 44.96	22 Ti 47.90	23 V 50.94	24 Cr 52.00	25 Mn 54.94	26 Fe 55.85	27 Co 58.93	28 Ni 58.69	29 Cu 63.55	30 Zn 65.38	31 Ga 69.72	32 Ge 72.61	33 As 74.92	34 Se 78.96	35 Br 79.90	36 Kr 83.80
5	37 Rb 85.47	38 Sr 87.62		39 Y 88.91	40 Zr 91.22	41 Nb 92.91	42 Mo 95.96	43 *Tc* (99)	44 Ru 101.07	45 Rh 102.91	46 Pd 106.4	47 Ag 107.87	48 Cd 112.41	49 In 114.82	50 Sn 118.71	51 Sb 121.75	52 Te 127.60	53 I 126.90	54 Xe 131.29
6	55 Cs 132.91	56 Ba 137.33	57-70 *	71 Lu 174.97	72 Hf 178.49	73 Ta 180.95	74 W 183.84	75 Re 186.21	76 Os 190.23	77 Ir 192.22	78 Pt 195.08	79 Au 196.97	80 Hg 200.59	81 Tl 204.38	82 Pb 207.2	83 Bi 208.98	84 Po (209)	85 At (210)	86 Rn (222)
7	87 Fr (223)	88 Ra (226)	89-102 **	103 *Lr* (262)	104 *Rf* (265)	105 *Db* (268)	106 *Sg* (271)	107 *Bh* (270)	108 *Hs* (277)	109 *Mt* (276)	110 *Ds* (281)	111 *Rg* (280)	112 *Cn* (285)	113 *Uut* (284)	114 *Fl* (289)	115 *Uup* (288)	116 *Lv* (293)	117 *Uus* (294)	118 *Uuo* (294)

*	57 La 138.91	58 Ce 140.12	59 Pr 140.91	60 Nd 144.24	61 *Pm* (147)	62 Sm 150.36	63 Eu 151.96	64 Gd 157.25	65 Tb 158.93	66 Dy 162.50	67 Ho 164.93	68 Er 167.26	69 Tm 168.93	70 Yb 173.04
**	89 Ac (227)	90 Th 232.04	91 Pa 231.04	92 U 238.03	93 *Np* (237)	94 *Pu* (244)	95 *Am* (243)	96 *Cm* (247)	97 *Bk* (247)	98 *Cf* (251)	99 *Es* (252)	100 *Fm* (257)	101 *Md* (258)	102 *No* (259)

Reference: http://www.webelements.com

Common Chemistry Conversions

English to Metric Conversions

(mass, length, volume, and area conversions are good to 4 significant figures)

Mass	Length	Volume	Area	Temperature
1 lb = 453.6 g	1 in = 2.540 cm	1 fl oz = 29.57 mL	1 in^2 = (2.54 cm)^2 =6.452 cm^2	$T_{°C} = {}^5/_9\ (T_{°F} - 32)$
1 oz = 28.35 g	1 ft = 30.48 cm	1 L = 1.057 qt	1 m^2 = (3.281 ft)^2 = 10.76 ft^2	$T_{°F} = {}^9/_5\ T_{°C} + 32$
1 kg = 2.205 lbs	1 m = 3.281 ft	1 gal = 3.785 L		$T_K = T_{°C} + 273.15$
1 metric ton =1000. kg	1 mi = 1.609 km	1 in^3 = (2.54 cm)^3 = 16.39 cm^3		

English to English Conversions. *(all conversions are exact)*

Mass	Length	Volume	Area
1 lb = 16 oz	1 ft = 12 in	1 cup = 8 fl oz	1 ft^2= (12 in)^2= 144 in^2
1 ton = 2000 lbs	1 yd = 3 ft	1 pt = 2 cups	1 mi^2 = 640 acres
	1 mi = 5280 ft	1 qt = 2 pt	
		1 gal = 4 qt	

Other Conversions

Energy	Pressure
1 cal = 4.184 J	1 atm = 760 mm Hg = 760 torr = 29.92 in Hg
I J = 1 kg·m^2/ s^2	1 atm = 14.7 psi = 101,325 Pa = 1.01325 bar
	1 Pa = 1 kg/(m·s^2)

Constants

speed of light (in a vacuum)	$c = 2.998 \times 10^8$ m/s
Planck's constant	$h = 6.626 \times 10^{-34}$ J·s
electron mass proton mass neutron mass	$m_e = 9.109 \times 10^{-31}$ kg $m_p = 1.673 \times 10^{-27}$ kg $m_n = 1.675 \times 10^{-27}$ kg
Avogadro's number	$N_A = 6.0221367 \times 10^{23}$ particles/mol
Gas Constant	R = 0.08206 L·atm/ (mol·K) = 8.315 J/(mol·K) = 8.315 kPa·dm^3/ (mol·K)
Faraday Constant	$F = 9.65 \times 10^4$ C/mol
Electronic charge	$e = 1.602 \times 10^{-19}$ C