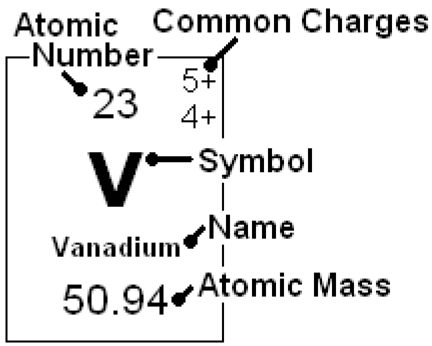
PERIODIC TABLE OF THE ELEMENTS



Solid
<u>Liquid</u>
Gas

Electron Placement

1s			
2s	2p		
3s	3p	3d	
4s	4p	4d	4f
5s	5p	5d	5f
6s	6p	6d	
7s	7p		
8s			

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	1 H 1.01																	2 He 4.00
2	3 **Li** 6.94	4 **Be** 9.01											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** 32.06	17 Cl 35.45	18 Ar 39.95
4	19 **K** 39.10	20 **Ca** 40.08	21 +3 **Sc** 44.98	22 +4 +3 **Ti** 47.87	23 +5 +4 **V** 50.94	24 +3 +2 +6 **Cr** 52.00	25 +2 +4 **Mn** 54.94	26 +3 +2 **Fe** 55.85	27 +2 +3 **Co** 58.93	28 +2 +3 **Ni** 58.69	29 +2 +1 **Cu** 63.55	30 +2 **Zn** 65.41	31 **Ga** 69.72	32 **Ge** 72.64	33 **As** 74.92	34 **Se** 78.96	35 ***<u>Br</u>*** 79.90	36 Kr 83.80
5	37 **Rb** 85.47	38 **Sr** 87.62	39 +3 +1 **Y** 88.91	40 +4 +2 +3 **Zr** 91.22	41 +5 **Nb** 92.91	42 +6 +4 +5 **Mo** 95.94	43 +7 +4 **Tc** 96.91	44 +4 +3 **Ru** 101.07	45 +3 **Rh** 102.91	46 +2 +4 **Pd** 106.42	47 +1 **Ag** 107.87	48 +2 **Cd** 112.41	49 **In** 114.81	50 +4 +2 **Sn** 118.71	51 **Sb** 121.76	52 **Te** 127.60	53 **I** 126.90	54 Xe 131.29
6	55 **Cs** 132.91	56 **Ba** 137.32	57 +3 **La** 138.91	72 +4 **Hf** 178.49	73 +5 **Ta** 180.95	74 +6 +4 **W** 183.94	75 +4 **Re** 186.21	76 +4 **Os** 190.23	77 +4 +3 **Ir** 192.21	78 +4 +2 **Pt** 195.08	79 +3 +1 **Au** 196.97	80 +2 +1 ***<u>Hg</u>*** 200.59	81 +3 +1 **Tl** 204.38	82 +4 +2 +3 **Pb** 207.20	83 **Bi** 208.98	84 **Po** (210)	85 **At** (210)	86 Rn (222)
7	87 **Fr** 223.02	88 **Ra** 226.02	89 +3 **Ac** 227.03	104 **Rf** Rutherfordium 256.10	105 **Db** Dubnium (262)	106 **Sg** Seaborgium (266)	107 **Bh** Bohrium (264)	108 **Hs** Hassium (277)	109 **Mt** Meitnerium (268)	110 **Ds** Darmstadtium (271)	111 **Rg** Roentgenium (272)	112 **Uub** Ununbium (277)	113 **Uut** Ununtrium (284)	114 **Uuq** Ununquadium (289)	115 **Uup** Ununpentium (288)	116 **Uuh** Ununhexium (293)		118 **Uuh** Ununoctium (294)

| - s-block - | - - - d-block - - - | - - - p-block - - - |

58 +3 **Ce** 140.12	59 +3 **Pr** 140.91	60 +3 **Nd** 144.24	61 +3 **Pm** 144.91	62 +3 **Sm** 150.36	63 +3 +2 **Eu** 151.96	64 +3 **Gd** 157.25	65 +3 **Tb** 158.93	66 +3 **Dy** 162.50	67 +3 **Ho** 164.93	68 +3 **Er** 167.26	69 +3 **Tm** 168.93	70 +3 **Yb** 173.04	71 +3 **Lu** 174.97
90 +4 **Th** 232.04	91 +5 **Pa** 231.04	92 +6 +4 **U** 238.00	93 +5 **Np** Neptunium 237.05	94 +4 +6 **Pu** Plutonium 244.06	95 +3 **Am** Americium 243.06	96 +3 **Cm** Curium (247)	97 +3 **Bk** Berkelium (249)	98 +3 **Cf** Californium (251)	99 **Es** Einsteinium (252)	100 **Fm** Fermium (257)	101 **Md** Mendelevium (258)	102 **No** Nobelium (259)	103 **Lr** Lawrencium (262)

| - - - f-block - - - |

Diatomic Elements

Bromine	Oxygen
Fluorine	Iodine
Nitrogen	Hydrogen
Chlorine	