## PERIODIC TABLE OF ELEMENTS

## **Oxidation States**

1	1  H  Hydrogen +1,-1											Pub Chem					2 He Helium	
2	3 Li Lithium +1	4 Be Beryllium +2			Atomic	Number  Cl Symbol  Name  Chlorine  +7, +5, +1, -1  Oxidation States							5 <b>B</b> Boron +3	6 C Carbon +4, +2, -4	7 N Nitrogen +5, +4, +3, +2,	8 Oxygen	9 F Fluorine	10 Ne Neon 0
3	Na Sodium	Mg Magnesium +2	3	4	5	6	7	8	9	10	11	12	13 Al Aluminum +3	14 <b>Si</b> Silicon +4, +2, -4	15 P Phosphorus +5, +3, -3	16 <b>S</b> Sulfur +6, +4, -2	17 Cl Chlorine +7, +5, +1, -1	18 Ar Argon
4	19 K Potassium +1	20 Ca Calcium +2	Scandium +3	22 Ti Titanium +4, +3, +2	23 V Vanadium +5, +4, +3, +2	24 Cr Chromium +6, +3, +2	25 <b>Mn</b> Manganese +7, +4, +3, +2	26 Fe Iron +3, +2	27 Co Cobalt +3, +2	28 <b>Ni</b> Nickel +3, +2	29 <b>Cu</b> Copper +2, +1	30 <b>Zn</b> <sup>Zinc</sup> +2	Gallium +3	Ge Germanium +4, +2	33 <b>As</b> Arsenic +5, +3, -3	34 <b>Se</b> Selenium +6, +4, -2	35 <b>Br</b> Bromine +5, +1, -1	36 Kr Krypton
5	Rb Rubidium	38 Sr Strontium +2	39 Y Yttrium +3	40 <b>Zr</b> Zirconium +4	41 <b>Nb</b> Niobium +5, +3	Mo Molybdenum +6	43 <b>TC</b> Technetium +7, +6, +4	Ru Ruthenium +3	45 <b>Rh</b> Rhodium +3	46 Pd Palladium +3, +2	Ag Silver	48 Cd Cadmium +2	49 In Indium +3	50 <b>Sn</b> Tin +4, +2	51 <b>Sb</b> Antimony +5, +3, -3	52 <b>Te</b> Tellurium +6, +4, -2	53	Xe Xenon
6	55 Cs Cesium +1	56 <b>Ba</b> Barium +2		72 <b>Hf</b> Hafnium +4	73 <b>Ta</b> Tantalum +5	74 W Tungsten +6	75 <b>Re</b> Rhenium +7, +6, +4	76 <b>OS</b> Osmium +4, +3	77 <b>Ir</b> Iridium +4, +3	78 <b>Pt</b> Platinum +4, +2	79 <b>Au</b> Gold +3, +1	80 <b>Hg</b> Mercury +2, +1	81 Thallium +3, +1	82 <b>Pb</b> Lead +4, +2	83 <b>Bi</b> Bismuth +5, +3	Polonium +4, +2	85 <b>At</b> Astatine 7, 5, 3, 1, -1	Rn Radon
7	87 Fr Francium +1	88 Ra Radium +2		104 <b>Rf</b> Rutherfordium +4	105 <b>Db</b> Dubnium 5, 4, 3	106 <b>Sg</b> Seaborgium 6, 5, 4, 3, 0	107 <b>Bh</b> Bohrium 7, 5, 4, 3	108 <b>HS</b> Hassium 8, 6, 5, 4, 3, 2	109 <b>Mt</b> Meitnerium 9, 8, 6, 4, 3, 1	110 <b>DS</b> Darmstadtium 8, 6, 4, 2, 0	111 <b>Rg</b> Roentgenium 5, 3, 1, -1	Copernicium 2, 1, 0	113 <b>Nh</b> Nihonium	114 Fl Flerovium 6, 4,2, 1, 0	MC Moscovium 3, 1	116 LV Livermorium +4, +2, -2	117 <b>TS</b> Tennessine +5, +3, +1, -1	118 <b>Og</b> Oganesson +6, +4, +2, +1,
				57 <b>La</b> Lanthanum	58 <b>Ce</b> Cerium +4, +3	59 <b>Pr</b> Praseodymium	60 Nd Neodymium +3	61 Pm Promethium +3	62 <b>Sm</b> Samarium +3, +2	63 <b>Eu</b> Europium +3, +2	64 <b>Gd</b> Gadolinium	65 <b>Tb</b> Terbium	66 Dy Dysprosium +3	67 <b>Ho</b> Holmium	68 <b>Er</b> Erbium +3	69 <b>Tm</b> Thulium +3	70 <b>Yb</b> Ytterbium +3, +2	71 Lu Lutetium +3
				89 AC Actinium +3	90 <b>Th</b> Thorium +4	91 Pa Protactinium +5, +4	92 <b>U</b> Uranium +6, +5, +4, +3	93 <b>Np</b> Neptunium +6, +5, +4, +3	94 <b>Pu</b> Plutonium +6, +5, +4, +3	95 <b>Am</b> Americium +6, +5, +4, +3	96 Cm Curium +3	97 <b>BK</b> Berkelium +4, +3	98 <b>Cf</b> Californium +3	99 <b>ES</b> Einsteinium +3	100 Fm Fermium +3	101 Md Mendelevium +3, +2	102 No Nobelium +3, +2	103 Lr Lawrencium +3