

Alkali metals		Alkaline earth metals		Transition metals: usually 2+ or 3+, varies by element								Boron group	Carbon group	Pnictogens	Chalcogens	Halogens	Noble gases
1+	2+											3+	varies	3-	2-	1-	-
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1 NM H Hydrogen 1+ 1-	Periodic Table with Charges Common ion charge of every element. The bold charge is the most common.																2 NG He Helium -
HOW TO READ A TILE 26 TM Fe Iron 2+ 3+ Atomic number Category code see the line key Symbol Name Common charges bold = most common LINE KEY AM Alkali metals AE Alkaline earth metals TM Transition metals PM Post-transition metals MD Metalloids NM Other nonmetals HL Halogens NG Noble gases LN Lanthanides AC Actinides UP Unknown properties *Mercury(I) exists as the Hg₂²⁺ ion (two mercury atoms).																	
3 AM Li Lithium 1+	4 AE Be Beryllium 2+											5 MD B Boron 3+	6 NM C Carbon 4+ 4-	7 NM N Nitrogen 3-	8 NM O Oxygen 2-	9 HL F Fluorine 1-	10 NG Ne Neon -
11 AM Na Sodium 1+	12 AE Mg Magnesium 2+											13 PM Al Aluminum 3+	14 MD Si Silicon 4+ 4-	15 NM P Phosphorus 3-	16 NM S Sulfur 2-	17 HL Cl Chlorine 1-	18 NG Ar Argon -
19 AM K Potassium 1+	20 AE Ca Calcium 2+	21 TM Sc Scandium 3+	22 TM Ti Titanium 3+ 4+	23 TM V Vanadium 2+ 3+ 4+ 5+	24 TM Cr Chromium 2+ 3+	25 TM Mn Manganese 2+ 3+ 4+	26 TM Fe Iron 2+ 3+	27 TM Co Cobalt 2+ 3+	28 TM Ni Nickel 2+	29 TM Cu Copper 1+ 2+	30 TM Zn Zinc 2+	31 PM Ga Gallium 3+	32 MD Ge Germanium 2+ 4+	33 MD As Arsenic 3+ 3-	34 NM Se Selenium 2-	35 HL Br Bromine 1-	36 NG Kr Krypton -
37 AM Rb Rubidium 1+	38 AE Sr Strontium 2+	39 TM Y Yttrium 3+	40 TM Zr Zirconium 4+	41 TM Nb Niobium 3+ 5+	42 TM Mo Molybdenum 4+ 6+	43 TM Tc Technetium 4+ 7+	44 TM Ru Ruthenium 3+ 4+	45 TM Rh Rhodium 3+	46 TM Pd Palladium 2+ 4+	47 TM Ag Silver 1+	48 TM Cd Cadmium 2+	49 PM In Indium 3+	50 PM Sn Tin 2+ 4+	51 MD Sb Antimony 3+	52 MD Te Tellurium 2-	53 HL I Iodine 1-	54 NG Xe Xenon -
55 AM Cs Cesium 1+	56 AE Ba Barium 2+	57-71 La-Lu	72 TM Hf Hafnium 4+	73 TM Ta Tantalum 5+	74 TM W Tungsten 4+ 6+	75 TM Re Rhenium 4+ 7+	76 TM Os Osmium 3+ 4+	77 TM Ir Iridium 3+ 4+	78 TM Pt Platinum 2+ 4+	79 TM Au Gold 1+ 3+	80 TM Hg Mercury 1+* 2+	81 PM Tl Thallium 1+ 3+	82 PM Pb Lead 2+ 4+	83 PM Bi Bismuth 3+	84 MD Po Polonium 2+ 4+	85 HL At Astatine 1-	86 NG Rn Radon -
87 AM Fr Francium 1+	88 AE Ra Radium 2+	89-103 Ac-Lr	104 TM Rf Rutherfordium -	105 TM Db Dubnium -	106 TM Sg Seaborgium -	107 TM Bh Bohrium -	108 TM Hs Hassium -	109 UP Mt Meitnerium -	110 UP Ds Darmstadtium -	111 UP Rg Roentgenium -	112 UP Cn Copernicium -	113 UP Nh Nihonium -	114 UP Fl Flerovium -	115 UP Mc Moscovium -	116 UP Lv Livermorium -	117 HL Ts Tennessine -	118 NG Og Oganesson -
Lanthanides		57 LN La Lanthanum 3+	58 LN Ce Cerium 3+ 4+	59 LN Pr Praseodymium 3+	60 LN Nd Neodymium 3+	61 LN Pm Promethium 3+	62 LN Sm Samarium 2+ 3+	63 LN Eu Europium 2+ 3+	64 LN Gd Gadolinium 3+	65 LN Tb Terbium 3+	66 LN Dy Dysprosium 3+	67 LN Ho Holmium 3+	68 LN Er Erbium 3+	69 LN Tm Thulium 3+	70 LN Yb Ytterbium 2+ 3+	71 LN Lu Lutetium 3+	
Actinides		89 AC Ac Actinium 3+	90 AC Th Thorium 4+	91 AC Pa Protactinium 4+ 5+	92 AC U Uranium 3+ 4+	93 AC Np Neptunium 3+ 4+	94 AC Pu Plutonium 3+ 4+	95 AC Am Americium 3+	96 AC Cm Curium 3+	97 AC Bk Berkelium 3+ 4+	98 AC Cf Californium 3+	99 AC Es Einsteinium 3+	100 AC Fm Fermium 3+	101 AC Md Mendelevium 2+ 3+	102 AC No Nobelium 2+ 3+	103 AC Lr Lawrencium 3+	