

Valence Electron Sequence

MAIN GROUP ELEMENTS REFERENCE CHART

IUPAC Group	Common Label	Valence Electrons	Representative Elements
Group 1	Alkali Metals	1	H, Li, Na, K, Rb, Cs, Fr
Group 2	Alkaline Earth Metals	2	Be, Mg, Ca, Sr, Ba, Ra
Group 13	Boron Group	3	B, Al, Ga, In, Tl
Group 14	Carbon Group	4	C, Si, Ge, Sn, Pb
Group 15	Nitrogen Group	5	N, P, As, Sb, Bi
Group 16	Chalcogens	6	O, S, Se, Te, Po
Group 17	Halogens	7	F, Cl, Br, I, At
Group 18	Noble Gases	8*	Ne, Ar, Kr, Xe, Rn

*Transition metals (Groups 3-12) follow complex subshell filling rules.