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FAMILIES OF THE PERIODIC TABLE

Group/Family	Valence Electrons	Common Ion Formed	Properties	Element Examples
ALKALI METALS (Group 1)	1	1 ⁺	<ul style="list-style-type: none"> • Soft metals • HIGHLY REACTIVE (esp. w/ H₂O) • Not found in nature unless in a compound 	Li Na K Rb Cs Fr
ALKALINE EARTH METALS (Group 2)	2	2 ⁺	<ul style="list-style-type: none"> • Less soft vs. Group 1 • Less Reactive vs. Group 1 • Only found in compounds in nature 	Be Mg Ca Sr Ba Ra
TRANSITION METALS (Groups 3-12ish)	Vary 1-7	+ Vary +1 - +7	<ul style="list-style-type: none"> • Metallic character • Properties vary by group 	Au Fe Hg Ti
HALOGENS (Group 17)	7	1 ⁻	<ul style="list-style-type: none"> • HIGHLY REACTIVE • Varying states of matter 	Gas - F + Cl Liquid - Br Solid - I + At
NOBLE GASES (Group 18)	8	∅	<ul style="list-style-type: none"> • Do not form ions! • NON REACTIVE • Colorless gases 	He Ne Ar Kr Xe Rn

Metals (ions = Cations)

Nonmetals (ions = anions)

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