

Chemistry I/ IH Bonding Review

	Ionic	Nonpolar Covalent	Polar Covalent	Metallic
How does the bond form?	transfer of e^-	equal sharing of e^-	unequal sharing of e^-	e^- in "sea" are attracted to metal cations.
What types of elements are in the bond?	metal 3 nonmetal	nonmetals	nonmetals	metals
What type of structure forms?	Crystal lattice	molecule	molecule	Crystal lattice
ΔEN	≥ 2.0	0 - .3	.4 - 1.9	0
State of Matter (common)	Solids	gases (usually)	liquids 3 solids (usually)	Solids
Examples	NaCl KBr CaF ₂	F ₂ , N ₂ , O ₂ , Cl ₂	C ₆ H ₁₂ O ₆ H ₂ O C ₂ H ₆ OH	Ag Mg Hg
Type of formula used	Empirical Formula	Molecular and Structural	Molecular and structural	Element formula (Chemical Symbol)