



First Element
Use a prefix to match subscript before element name (drop mono).

Second Element
Uses a prefix before the element and end with -ide.
Drop a & o with oxide

Fixed charge
Name the element as the element. (group IA, IIA & the "nose")

Variable Charge
Name the element as the element. Add parenthesis with a Roman numeral indicating the charge.

Monatomic ion
Name the element with the -ide suffix.

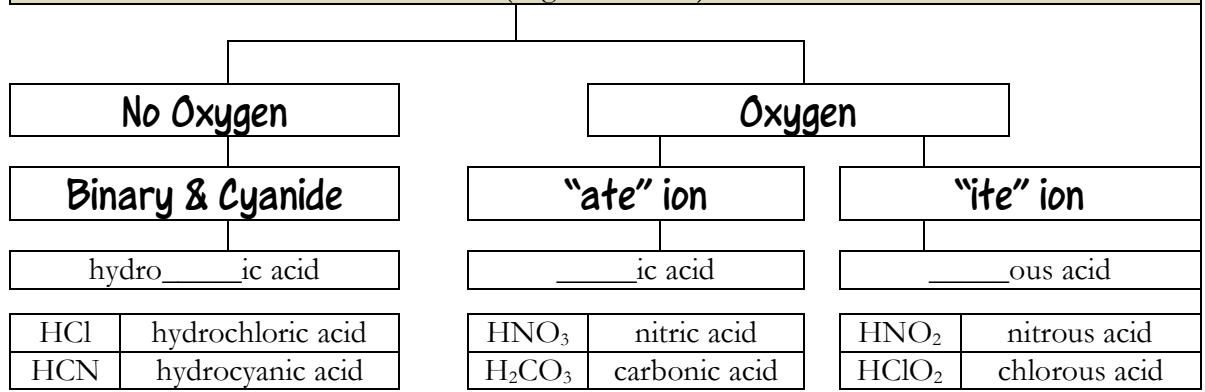
Polyatomic ion
Name the polyatomic ion (-ate or -ite suffix).

Covalent	
CO	carbon monoxide
N ₂ O ₅	dinitrogen pentoxide
P ₄ O ₁₀	tetraphosphorus decoxide

Ionic Fixed	
Ag ₂ S	silver sulfide
Mg(NO ₃) ₂	magnesium nitrate
AlPO ₃	aluminum phosphite

Ionic Variable	
CuCl ₂	copper (II) chloride
FeSO ₄	iron (II) sulfate
Ni(ClO ₂) ₃	nickel (III) chlorite

Naming Aqueous Acids
(begins with H⁺)



Polyatomic Ions (some, not all)

-1	-2	-3
nitrate NO ₃ ⁻	sulfate SO ₄ ²⁻	phosphate PO ₄ ³⁻
nitrite NO ₂ ⁻	sulfite SO ₃ ²⁻	phosphite PO ₃ ³⁻
perchlorate ClO ₄ ⁻	carbonate CO ₃ ²⁻	
chlorate ClO ₃ ⁻	oxalate C ₂ O ₄ ²⁻	
chlorite ClO ₂ ⁻	chromate CrO ₄ ²⁻	
hypochlorite ClO ⁻	dichromate Cr ₂ O ₇ ²⁻	
acetate C ₂ H ₃ O ₂ ⁻		
permanganate MnO ₄ ⁻		
cyanide CN ⁻		
hydroxide OH ⁻		
bicarbonate HCO ₃ ⁻		
		+1 ammonium NH ₄ ⁺