

Ion Chart - AP

+1 Charge

H	Hydrogen
Li	Lithium
Na	Sodium
K	Potassium
Cs	Cesium
Ag	Silver
Cu	Copper (I) or Cuprous
NH ₄	Ammonium

+2 Charge

Ba	Barium
Ca	Calcium
Cd	Cadmium
Co	Cobalt
Cr	Chromium (II)
Cu	Copper (II) or Cupric
Fe	Iron (II) or Ferrous
Hg ₂	Mercury (I) or Mercurous
Hg	Mercury (II) or Mercuric
Mg	Magnesium
Mn	Manganese
Ni	Nickel
Pb	Lead (II) or Plumbous
Sn	Tin (II) or Stannous
Sr	Strontium
Zn	Zinc

+3 Charge

Al	Aluminum
Cr	Chromium (III)
Fe	Iron (III) or Ferric

****Molecular Compound:**

- Contains two non-metals
- *1st element takes a prefix IF there is more than 1, 2nd element always takes a prefix

PREFIX:

- 1 – mono; 2 – di; 3 – tri;
- 4 – tetra; 5 – penta; 6 – hexa
- 7 – hepta; 8 – octa; 9 – nona; 10 - deca

-1 Charge

Br	Bromide
BrO ₃	Bromate
F	Fluoride
Cl	Chloride
ClO	Hypochlorite
ClO ₂	Chlorite
ClO ₃	Chlorate
ClO ₄	Perchlorate
CN	Cyanide
C ₂ H ₃ O ₂	Acetate
H	Hydride
I	Iodide
IO ₃	Iodate
MnO ₄	Permanganate
NO ₂	Nitrite
NO ₃	Nitrate
OH	Hydroxide
SCN	Thiocyanate
HCO ₃	Hydrogen carbonate (bicarbonate)
HSO ₄	Hydrogen sulfate (bisulfate)
H ₂ PO ₄	Dihydrogen phosphate

-2 Charge

CO ₃	Carbonate
CrO ₄	Chromate
Cr ₂ O ₇	Dichromate
O	Oxide
O ₂	Peroxide
S	Sulfide
SO ₃	Sulfite
S ₂ O ₃	Thiosulfate
SO ₄	Sulfate
C ₂ O ₄	Oxalate
HPO ₄	Hydrogen phosphate

-3 Charge

N	Nitride
PO ₃	Phosphite
PO ₄	Phosphate
AsO ₄	Arsenate
P	Phosphide

Memorize all ions!!!