OH^{1-}

Hydroxide

CO_3^{2-}

Carbonate

NO_3^{1-}

Nitrate

HCO_3^{1-}

Bicarbonate

PO_4^{3-}

Phosphate

$C_2H_3O_2^{1-}$ or CH_3COO^{1-}

Acetate

SO_4^{2-}

Sulfate

* NH_4^{1+}

Ammonium

Polyatomic Ions:

Ions made up of more than one atom/element with an overall charge.

Color Key:

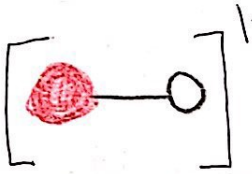
- Phosphorus
- Oxygen
- Sulfur
- Nitrogen
- Carbon
- Hydrogen

Conjugating Polyatomic Ions:

- Suffix "-ate" refers to a specific # of oxygens

"Per-___-ate" - 1 more oxygen
↑ Add an oxygen

- "ate" → specific # of oxygens
  ↓ Lost one oxygen
- "ite" - 1 less oxygen
  ↳ Lost 2 ~~oxyg~~ oxygen → "Hypo-___-ite"

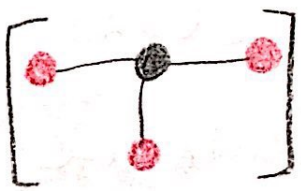


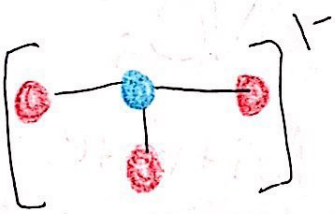
$Li^{1+}OH^{1-}$ - Lithium hydroxide

$Ca(OH)_2$ - Calcium hydroxide

$Ca^{+2}CO_3^{-2}$ - Calcium carbonate

$K_2^{+}CO_3^{-2}$ - Potassium carbonate



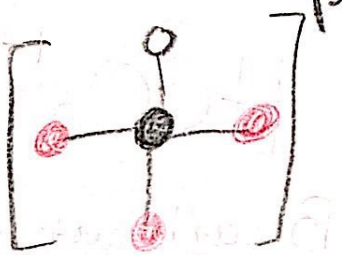


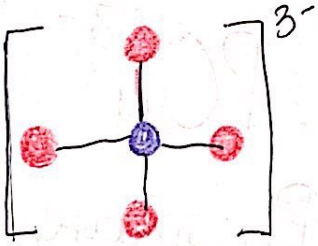
$NaNO_3$ - Sodium nitrate

$Ga(NO_3)_3$ - Gallium nitrate

$Na^{+}HCO_3^{-}$ - Sodium bicarbonate

$Fe^{+2}(HCO_3^{-})_2$ - Iron (II) bicarbonate



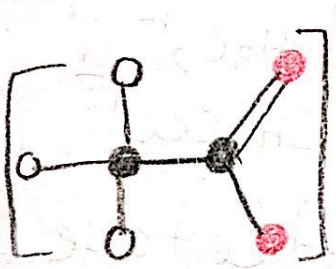


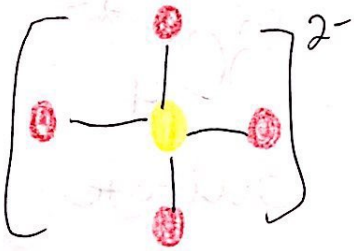
$AlPO_4$ - Aluminum phosphate

$Mg_3(PO_4)_2$ - Magnesium Phosphate

$Ag^{+1}CH_3COO^{-1}$ - Silver acetate

$Ni^{+2}(C_2H_3O_2)_2^{-1}$ - Nickel (II) acetate





$Cu_2SO_4^{2-}$ - Copper(I) sulfate

$NH_4^{+1}Cl^{-1}$ = Ammonium chloride

$(NH_4)_2^{+1}SO_4^{-2}$ - Ammonium sulfate