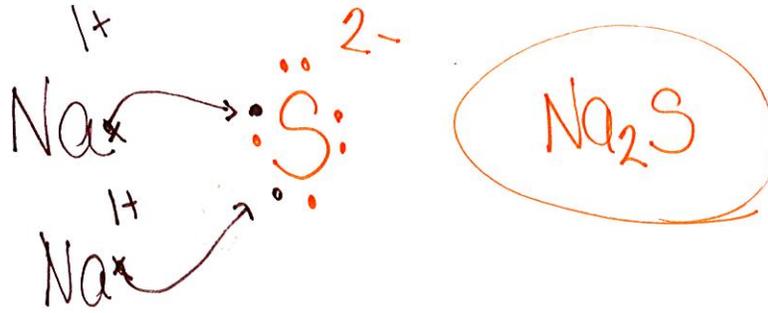


## Review Ionic Bonding



### Type I Binary Ionic Nomenclature

(2 elements)      names/formulas

## 1) Names

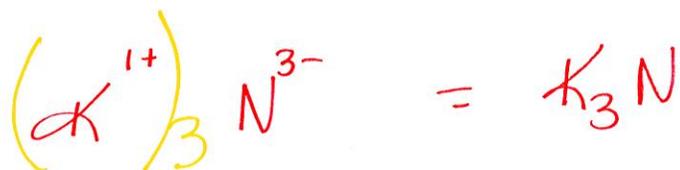
- write name of metal cation (element)
- write name of nonmetal anion (element), change ending to -IDE!

Ex)  $\text{NaCl}$  sodium chloride $\text{K}_2\text{O}$  potassium oxide $\text{Be}_3\text{P}_2$  beryllium phosphide $\text{SrS}$  strontium sulfide $\text{RbI}$  rubidium iodide $\text{Al}_2\text{Se}_3$  aluminum selenide

## 2.) Formulas

Use subscripts to show the # of each ion. The goal is to have the charges add up to ZERO!

Ex) potassium nitride



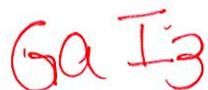
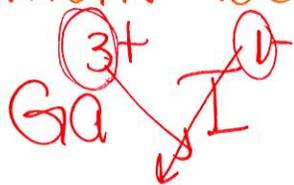
barium chloride



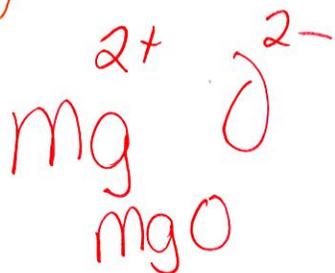
calcium phosphide



gallium iodide



magnesium oxide



# Type I Tertiary Ionic Nomenclature

more than 2

nitrite



sulfite



nitrate



sulfate



## Names

- Write name of metal cation
- Write name of nonmetal polyatomic anion.



sodium chlorite



magnesium phosphate

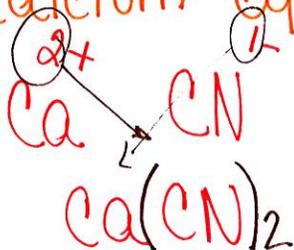


sodium hydrogen carbonate  
(bicarbonate)

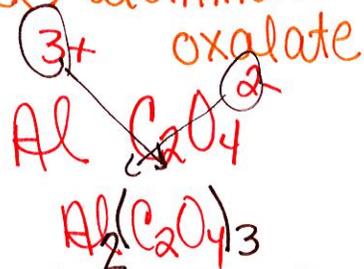
## Formulas

- 1) Write symbol & charge of the metal cation
- 2) " " " nonmetal polyatomic anion.
- 3) Criss-cross charges! If you are crossing over a number to the polyatomic anion, put the anion in parentheses first.

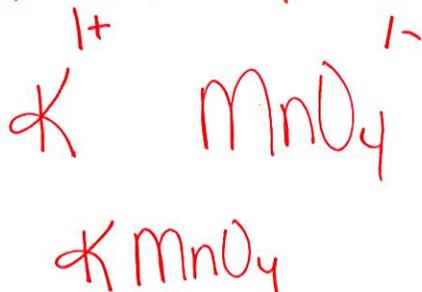
Ex) calcium cyanide



Ex) aluminum



Ex) potassium permanganate



Ex) barium acetate

