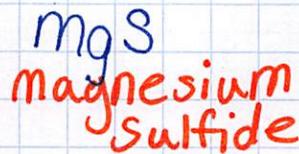
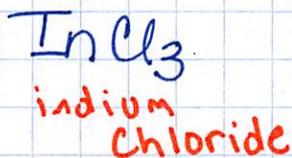
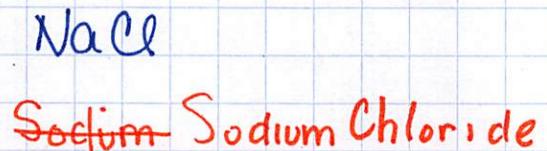
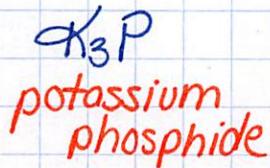
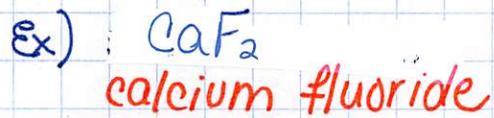


Names

- 1) write the name of the metal cation
- 2) write the name of the nonmetal anion, change ending to -ide



cw: write the name or the formula

- 1) calcium oxide CaO
- 2) potassium nitride K_3N
- 3) CaCl_2 calcium chloride
- 4) Al_2Te_3 aluminum telluride
- 5) lithium phosphide Li_3P
- 6) beryllium iodide BeI_2
- 7) Ba_3N_2 barium nitride
- 8) RbCl rubidium chloride
- 9) gallium phosphide GaP
- 10) BaBr_2 barium bromide

Type II Binary Ionic Nomenclature

transition metal & nonmetal

↳ can have more than 1 charge, told the charge using Roman Numerals

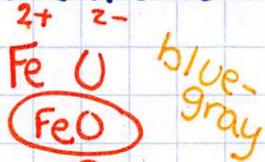
1	I
2	II
3	III
4	IV
5	V

6	VI
7	VII
8	VIII
9	IX
10	X

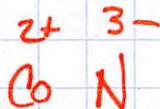
Write the formula

Do the exact same thing you did for type I

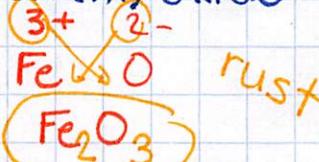
Ex iron (II) oxide



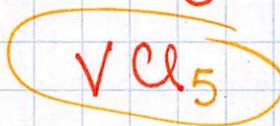
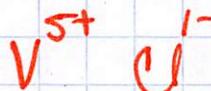
cobalt (II) nitride



iron (III) oxide

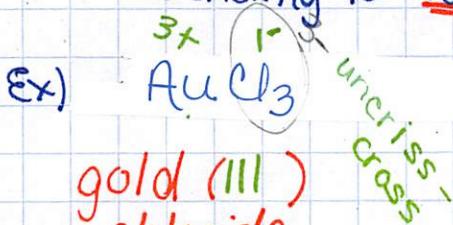


vanadium (V) chloride

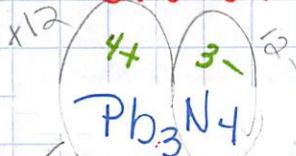


Names

- 1) Write name of metal cation, then the original charge as a Roman numeral
- 2) Write name of nonmetal anion, change the ending to -ide

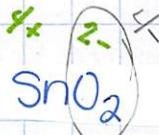


gold (III) chloride

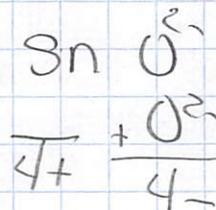
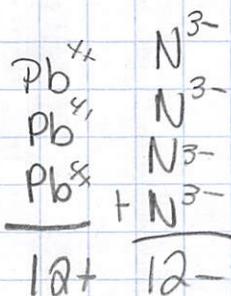


lead (IV) nitride

nickel (II) sulfide



tin (IV) oxide



same # charge, but opposite sign

Type II

11. iron(III) fluoride

12. chromium(II) oxide

13. MnT_3

14. Ag_2O

15. manganese(III) nitride

16. cobalt(II) phosphide

17. $AuBr$

18. $AuBr_3$

19. vanadium(IV) arsenide

20. PbO

FIVE STAR.

FIVE STAR.

FIVE STAR.

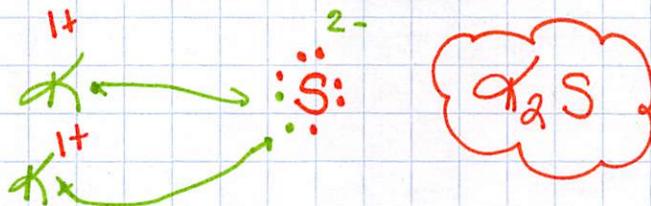
FIVE STAR.

Ionic Nomenclature (names & formulas)

- have metals & nonmetals
- IUPAC nomenclatures

Type I Binary Ionic Nomenclature

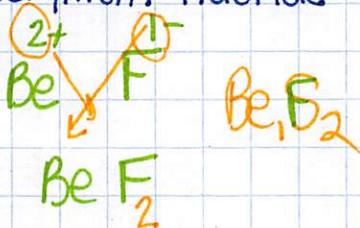
Review/



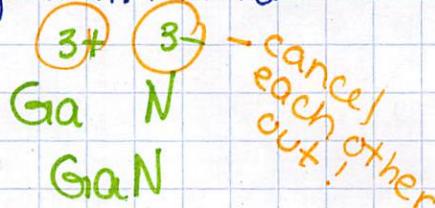
Write Formulas

- 1) Write symbol & charge of metal cation 1st
- 2) Do same for nonmetal anion.
- 3) Criss-cross charges (drop + or - sign)
- 4) Make sure it's simplified

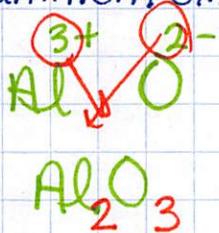
Ex) beryllium fluoride



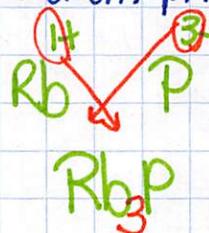
gallium nitride



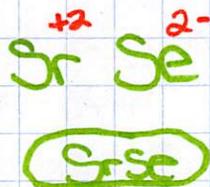
aluminum oxide



rubidium phosphide



strontium selenide



lithium arsenide

