

Name:

Block:

INTRO

Type One:

Monovalent Binary Compounds: A compound made from a metal in group 1 or 2, silver(+1) zinc (+2) or Aluminum (+3) Gallium (+3) combining with a nonmetal.

Part A: To Name from the formula:

State metal State Nonmetal change to ide ending

Example: AlCl_3 = aluminum chloride

Fill in the grid with the name or formula

Formula	Name	Formula	Name
1. MgCl_2		2. BaF_2	
3. Al_2O_3		4. Ag_2O	
5. Li_3N		6. CaCl_2	
7. Ag_3P		8. ZnS	
9. Ca_3N_2		10. K_3P	

Part B to make the formula from the name:

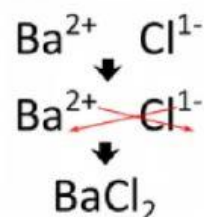
Example: Barium Chloride:

1. Write the symbols
2. Find the oxidation number from the Periodic table
3. Cross and Drop oxidation numbers reduce if possible

YES I expect you to be able to make subscripts:

Short cut : control Alt and comma to drop the number down

control alt comma to bring the cursor back up.



Name	Formula	Name	Formula
11. Barium Bromide		12. Lithium Phosphide	
13. Lithium Bromide		14. Aluminum Sulfide	
15. Strontium Chloride		16. Calcium Oxide	
17. Zinc Nitride		18. Silver Oxide	
19. Calcium Chloride		20. Aluminum Fluoride	

First alittle math lesson: Solve the following for the value of X:

1. $2(x) + 3(-2) = 0$

2. $1(x) + 2(-2) = 0$

3. $1(x) + 2(-1) = 0$

4. $2(X) + 1(-2) = 0$

Type Two: Polyvalent metal Binary Compounds:

Any other metal not in group 1 or 2, silver or zinc : NEED ROMAN NUMERAL FOR CHARGE

(Subscript of Metal) (X) =+ (Subscript of Non-metal) (Ox # from table) = 0

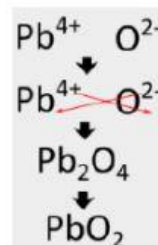
Part A: To name the compound from the formula:

Formula	Name	Formula	Name
21. CuCl_2		22. SnS	
23. Cr_3P_2		24. Fe_2S_3	
25. SnBr_2		26. Co_2S_3	
27. FeF_3		28. FeBr_3	
29. CoCl_3		30. CuCl_2	

Part B to make the compound :

Cross and drop R.N. given and Ox Number reduce if possible

Example: Lead IV Oxide:



Name	Formula	Name	Formula
31. Tin II Sulfide		32. Cobalt III Chloride	
33. Nickel II Bromide		34. Iron III Nitride	
35. Tin II Fluoride		36. Copper II Phosphide	
37. Cobalt III Phosphide		38. Lead II Chloride	
39. Chromium II Sulfide		40. Iron II Nitride	