

Writing Chem Formulas and Naming Compounds

Name \_\_\_\_\_

Date \_\_\_\_\_ Blk \_\_\_\_\_

**A. Rules**

1. In a chemical formula the \_\_\_\_\_ is written first and the \_\_\_\_\_ is written second.
2. When writing the chemical name, for simple ionic compounds, the suffix (ending) \_\_\_\_\_ is given to the non-metal and it would be found on the \_\_\_\_\_ side of the \_\_\_\_\_.
3. Polyatomics usually have these characteristics:
  1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_
4. The suffix (endings) for polyatomics are: \_\_\_\_\_ or \_\_\_\_\_. The exceptions to these endings are: \_\_\_\_\_.
5. Roman numerals are ONLY used when the metal has \_\_\_\_\_.
6. When writing chemical names, Roman numerals are placed \_\_\_\_\_ the metal. Roman numerals are used for *chemical names/chemical formulas* (choose one).

**B. Write the chemical formula for the following compounds.**

1. sodium chloride		21. cesium phosphate	
2. magnesium fluoride		22. strontium bromide	
3. lithium sulphide		23. barium phosphide	
4. calcium phosphate		24. scandium sulphide	
5. titanium (III) nitride		25. chromium (III) sulphate	
6. molybdenum (III) nitrite		26. iron (II) thiocyanate	
7. cobalt (III) carbonate		27. ammonium chloride	
8. zinc phosphate		28. manganese (III) sulphite	
9. ammonium nitride		29. aluminum oxide	
10. aluminum dichromate		30. cadmium chromate	
11. silver cyanide		31. tin (IV) oxide	
12. tungsten bromide		32. gold (III) nitrite	
13. ammonium phosphate		33. nickel (II) nitride	
14. lead (IV) phosphite		34. sodium acetate	
15. potassium phosphide		35. ammonium thiocyanate	
16. beryllium dichromate		36. calcium chlorate	
17. zirconium nitride		37. aluminum hydroxide	
18. copper (II) cyanide		38. nickel (II) chloride	
19. chromium (III) carbonate		39. rhenium (VII) oxide	
20. mercury (II) iodide		40. platinum (IV) phosphate	

**C. Write the chemical name for each of the following compounds.**

1. NaF	
2. $\text{Li}_3\text{PO}_4$	
3. $\text{NiCl}_3$	
4. $\text{Al}(\text{CN})_3$	
5. $\text{Mn}_3(\text{PO}_4)_7$	
6. HgO	
7. CoN	
8. $\text{Zr}(\text{CrO}_4)_2$	
9. CdO	
10. $\text{Co}_3(\text{PO}_4)_2$	
11. $\text{Ti}_2\text{O}_3$	
12. SnO	
13. $\text{RhI}_3$	
14. $\text{BeCr}_2\text{O}_7$	
15. $(\text{NH}_4)_3\text{PO}_3$	
16. $\text{NH}_4\text{Cl}$	
17. PbO	
18. $\text{W}(\text{OH})_6$	
19. $\text{CuCO}_3$	
20. $\text{CrPO}_4$	
21. $\text{Ni}_2\text{S}_3$	
22. $\text{Zn}_3(\text{PO}_4)_2$	
23. FeN	
24. $\text{AuF}_3$	
25. $\text{CuNO}_3$	
26. KOH	
27. $\text{SnO}_2$	
28. $\text{CsSCN}$	
29. $\text{AuHCO}_3$	
30. AlP	