

WRITING FORMULAS (CRISS-CROSS METHOD)

Name _____

Write the formulas of the compounds produced from the listed ions.

	Cl^-	CO_3^{-2}	OH^-	SO_4^{-2}	PO_4^{-3}	NO_3^-
Na^+						
NH_4^+						
K^+						
Ca^{+2}						
Mg^{+2}						
Zn^{+2}						
Fe^{+3}						
Al^{+3}						
Co^{+3}						
Fe^{+2}						
H^+						

WRITING BINARY FORMULAS

Name _____

Write the formulas for the compounds formed from the following ions.

- | | |
|--|--|
| 1. Na^+ , Cl^- _____ | 11. Fe^{+2} , O^{-2} _____ |
| 2. Ba^{+2} , F^- _____ | 12. Fe^{+3} , O^{-2} _____ |
| 3. K^+ , S^{-2} _____ | 13. Cr^{+2} , S^{-2} _____ |
| 4. Li^+ , Br^- _____ | 14. Cr^{+3} , S^{-2} _____ |
| 5. Al^{+3} , I^- _____ | 15. Cu^+ , Cl^- _____ |
| 6. Zn^{+2} , S^{-2} _____ | 16. Cu^{+2} , Cl^- _____ |
| 7. Ag^+ , O^{-2} _____ | 17. Pb^{+2} , O^{-2} _____ |
| 8. Mg^{+2} , P^{-3} _____ | 18. Pb^{+4} , O^{-2} _____ |
| 9. Ni^{+2} , O^{-2} _____ | 19. Mn^{+2} , Br^- _____ |
| 10. Ni^{+3} , O^{-2} _____ | 20. Mn^{+4} , Br^- _____ |

WRITING FORMULAS FROM NAMES

Name _____

Write the formulas of the following compounds.

1. ammonium phosphate

2. iron (II) oxide

3. iron (III) oxide

~~4. carbon monoxide~~

5. calcium chloride

6. potassium nitrate

7. magnesium hydroxide

8. aluminum sulfate

9. copper (II) sulfate

10. lead (IV) chromate

~~11. diphosphorus pentoxide~~

12. potassium permanganate

13. sodium hydrogen carbonate

14. zinc nitrate

15. aluminum sulfite

WRITING FORMULAS FROM NAMES

Name _____

Write the formulas for the following compounds.

1. ~~carbon monoxide~~ _____
2. sodium chloride _____
3. ~~carbon tetrachloride~~ _____
4. magnesium bromide _____
5. aluminum iodide _____
6. hydrogen hydroxide _____
7. iron (II) fluoride _____
8. ~~carbon dioxide~~ _____
9. sodium carbonate _____
10. ammonium sulfide _____
11. iron (II) oxide _____
12. iron (III) oxide _____
13. magnesium sulfate _____
14. sodium phosphate _____
15. ~~dinitrogen pentoxide~~ _____
16. ~~phosphorus trichloride~~ _____
17. aluminum sulfite _____
18. copper (I) carbonate _____
19. potassium hydrogen carbonate _____
20. ~~sulfur trioxide~~ _____