

## NAMING IONIC COMPOUNDS

Name

Key

Name the following compounds using the Stock Naming System.

1.  $\text{CaCO}_3$  calcium carbonate
2.  $\text{KCl}$  potassium chloride
3.  $\text{FeSO}_4$  iron (II) sulfate
4.  $\text{LiBr}$  lithium bromide
5.  $\text{MgCl}_2$  magnesium chloride
6.  $\text{FeCl}_3$  iron (III) chloride
7.  $\text{Zn}_3(\text{PO}_4)_2$  zinc phosphate
8.  $\text{NH}_4\text{NO}_3$  ammonium nitrate
9.  $\text{Al}(\text{OH})_3$  aluminum hydroxide
10.  $\text{CuC}_2\text{H}_3\text{O}_2$  copper (I) acetate
11.  $\text{PbSO}_3$  lead (II) sulfite
12.  $\text{NaClO}_3$  sodium chlorate
13.  $\text{CaC}_2\text{O}_4$  calcium oxalate
14.  $\text{Fe}_2\text{O}_3$  iron (III) oxide
15.  $(\text{NH}_4)_3\text{PO}_4$  ammonium phosphate
16.  $\text{NaHSO}_4$  sodium hydrogen sulfate
17.  $\text{Hg}_2\text{Cl}_2$  mercury (II) chloride
18.  $\text{Mg}(\text{NO}_2)_2$  magnesium nitrite
19.  $\text{CuSO}_4$  copper (II) sulfate
20.  $\text{NaHCO}_3$  sodium hydrogen carbonate
21.  $\text{NiBr}_3$  nickel (III) bromide
22.  $\text{Be}(\text{NO}_3)_2$  beryllium nitrate
23.  $\text{ZnSO}_4$  zinc sulfate
24.  $\text{AuCl}_3$  gold (III) chloride
25.  $\text{KMnO}_4$  potassium permanganate

# WRITING FORMULAS FROM NAMES

Name \_\_\_\_\_

Write the formulas of the following compounds.

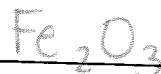
1. ammonium phosphate



2. iron (II) oxide



3. iron (III) oxide



4. carbon monoxide



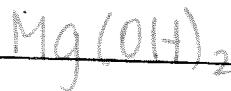
5. calcium chloride



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



5. aluminum sulfite



# NAMING COMPOUNDS (MIXED)

Name Key

Name the following compounds.

1. NaCl sodium chloride
2. MnS manganese (II) sulfide
3. K<sub>2</sub>O potassium oxide
4. CuBr<sub>2</sub> copper (II) bromide
5. CuBr copper (I) bromide
6. CO<sub>2</sub> carbon dioxide
7. PbSO<sub>4</sub> lead (II) sulfate
8. Li<sub>2</sub>CO<sub>3</sub> lithium carbonate
9. Na<sub>2</sub>CO<sub>3</sub> sodium carbonate
10. NO<sub>2</sub> nitrogen dioxide
11. N<sub>2</sub>O<sub>4</sub> dinitrogen tetroxide
12. Ca(OH)<sub>2</sub> calcium hydroxide
13. NH<sub>4</sub>Cl ammonium chloride
14. SO<sub>3</sub> sulfur trioxide
15. AlPO<sub>4</sub> aluminum phosphate
16. CCl<sub>4</sub> carbon tetrachloride
17. CaS calcium sulfide
18. NH<sub>3</sub> nitrogen trihydride (ammonia)
19. MgI<sub>2</sub> magnesium iodide
20. K<sub>3</sub>PO<sub>4</sub> potassium phosphate

# WRITING FORMULAS FROM NAMES

Name \_\_\_\_\_

Write the formulas for the following compounds.

1. carbon monoxide CO
2. sodium chloride NaCl
3. carbon tetrachloride CCl<sub>4</sub>
4. magnesium bromide MgBr<sub>2</sub>
5. aluminum iodide AlI<sub>3</sub>
6. hydrogen hydroxide HOH → H<sub>2</sub>O
7. iron (II) fluoride FeF<sub>2</sub>
8. carbon dioxide CO<sub>2</sub>
9. sodium carbonate Na<sub>2</sub>CO<sub>3</sub>
10. ammonium sulfide (NH<sub>4</sub>)<sub>2</sub>S
11. iron (II) oxide FeO
12. iron (III) oxide Fe<sub>2</sub>O<sub>3</sub>
13. magnesium sulfate MgSO<sub>4</sub>
14. sodium phosphate Na<sub>3</sub>PO<sub>4</sub>
15. dinitrogen pentoxide N<sub>2</sub>O<sub>5</sub>
16. phosphorus trichloride PCl<sub>3</sub>
17. aluminum sulfite Al<sub>2</sub>(SO<sub>3</sub>)<sub>3</sub>
18. copper (I) carbonate Cu<sub>2</sub>CO<sub>3</sub>
19. potassium hydrogen carbonate KHCO<sub>3</sub>
20. sulfur trioxide SO<sub>3</sub>