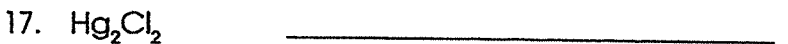
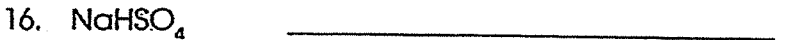
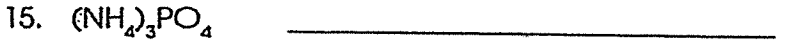
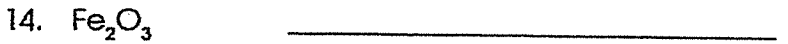
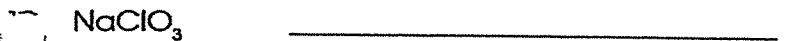
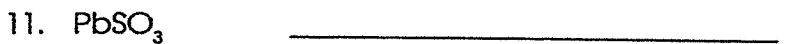


# NAMING IONIC COMPOUNDS

Name \_\_\_\_\_

Write the following compounds using the Stock Naming System.



# NAMING MOLECULAR COMPOUNDS

Name \_\_\_\_\_

Name the following covalent compounds.

1.  $\text{CO}_2$  \_\_\_\_\_
2.  $\text{CO}$  \_\_\_\_\_
3.  $\text{SO}_2$  \_\_\_\_\_
4.  $\text{SO}_3$  \_\_\_\_\_
5.  $\text{N}_2\text{O}$  \_\_\_\_\_
6.  $\text{NO}$  \_\_\_\_\_
7.  $\text{N}_2\text{O}_3$  \_\_\_\_\_
8.  $\text{NO}_2$  \_\_\_\_\_
9.  $\text{N}_2\text{O}_4$  \_\_\_\_\_
10.  $\text{N}_2\text{O}_5$  \_\_\_\_\_
11.  $\text{PCl}_3$  \_\_\_\_\_
12.  $\text{PCl}_5$  \_\_\_\_\_
13.  $\text{NH}_3$  \_\_\_\_\_
14.  $\text{SCl}_6$  \_\_\_\_\_
15.  $\text{P}_2\text{O}_5$  \_\_\_\_\_
16.  $\text{CCl}_4$  \_\_\_\_\_
17.  $\text{SiO}_2$  \_\_\_\_\_
18.  $\text{CS}_2$  \_\_\_\_\_
19.  $\text{OF}_2$  \_\_\_\_\_
20.  $\text{PBr}_3$  \_\_\_\_\_

## Naming Ionic Compounds

Fill in the table below. A list of polyatomic ions is provided [here](#).

	Compound Name	Cation	Anion	Chemical Formula
1	Calcium chloride			
2				$\text{AlPO}_4$
3		$\text{Na}^+$	$\text{PO}_3^{3-}$	
4	Potassium sulfate			
5				$\text{Mg}(\text{OH})_2$
6	Ammonium nitrate			
7	Lithium sulfite			
8	Calcium hydroxide			
9	Hydrogen sulfide			
10	Magnesium phosphate			
11	Aluminum sulfide			
12	Aluminum sulfate			
13				$\text{Ca}_3(\text{PO}_4)_2$
14				$\text{BaO}$
15				$(\text{NH}_4)_2\text{CO}_3$
16				$(\text{NH}_4)_2\text{SO}_4$
17				$\text{Ba}(\text{NO}_3)_2$
18		$\text{Na}^+$	$\text{HCO}_3^-$	
19		$\text{K}^+$	$\text{ClO}_3^-$	
20		$\text{Zn}^{2+}$	$\text{S}^{2-}$	

# TYPES OF CHEMICAL BONDS

Name \_\_\_\_\_

Classify the following compounds as ionic (metal + nonmetal), covalent (nonmetal + nonmetal) or both (compound containing a polyatomic ion).

1.  $\text{CaCl}_2$  \_\_\_\_\_

11.  $\text{MgO}$  \_\_\_\_\_

2.  $\text{CO}_2$  \_\_\_\_\_

12.  $\text{NH}_4\text{Cl}$  \_\_\_\_\_

3.  $\text{H}_2\text{O}$  \_\_\_\_\_

13.  $\text{HCl}$  \_\_\_\_\_

4.  $\text{BaSO}_4$  \_\_\_\_\_

14.  $\text{KI}$  \_\_\_\_\_

5.  $\text{K}_2\text{O}$  \_\_\_\_\_

15.  $\text{NaOH}$  \_\_\_\_\_

6.  $\text{NaF}$  \_\_\_\_\_

16.  $\text{NO}_2$  \_\_\_\_\_

7.  $\text{Na}_2\text{CO}_3$  \_\_\_\_\_

17.  $\text{AlPO}_4$  \_\_\_\_\_

8.  $\text{CH}_4$  \_\_\_\_\_

18.  $\text{FeCl}_3$  \_\_\_\_\_

9.  $\text{SO}_3$  \_\_\_\_\_

19.  $\text{P}_2\text{O}_5$  \_\_\_\_\_

0.  $\text{LiBr}$  \_\_\_\_\_

20.  $\text{N}_2\text{O}_3$  \_\_\_\_\_