

## Binary Covalent Compounds

Name KEY Date \_\_\_\_\_ Per \_\_\_\_\_

Please complete the following table:

Name of Covalent Compound	Formula of Covalent Compound
1. carbon dioxide	$CO_2$
2. phosphorus triiodide	$PI_3$
3. sulfur dichloride	$SCl_2$
4. nitrogen trifluoride	$NF_3$
5. dioxygen difluoride	$O_2F_2$
dinitrogen tetrafluoride	6. $N_2F_4$
sulfur tetrachloride	7. $SCl_4$
chlorine trifluoride	8. $ClF_3$
silicon dioxide	9. $SiO_2$
tetraphosphorus decoxide	10. $P_4O_{10}$

Determine whether the following compounds are **covalent** or **ionic** and give them their proper names.

1.  $Ba(NO_3)_2$  ionic      barium nitrate
2.  $CO$  covalent      carbon monoxide
3.  $PCl_3$  covalent      phosphorus trichloride
4.  $KI$  ionic      potassium iodide
5.  $CF_4$  covalent      carbon tetrafluoride
6.  $MgO$  ionic      magnesium oxide
7.  $Cu_2S$  ionic      copper (II) sulfide
8.  $SO_2$  covalent      sulfur dioxide
9.  $NCl_3$  covalent      nitrogen trichloride
10.  $XeF_6$  covalent      xenon hexafluoride