

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

## Binary Molecular Compounds

Draw the structural formulas (Lewis structures) for the covalent compounds that result from combining the listed elements.

1. one hydrogen and one iodine
2. one nitrogen and three hydrogens
3. one carbon and four fluorines
4. one phosphorus and three chlorines
5. one antimony and three bromines

Name the following molecules.

6.  $\text{NF}_3$  \_\_\_\_\_
7.  $\text{Cl}_2\text{O}$  \_\_\_\_\_
8.  $\text{B}_6\text{Si}$  \_\_\_\_\_
9.  $\text{N}_2\text{O}_5$  \_\_\_\_\_
10.  $\text{CS}_2$  \_\_\_\_\_

Write the chemical formulas for the following covalent compounds.

11. phosphorus trichloride \_\_\_\_\_
12. dinitrogen monoxide \_\_\_\_\_
13. xenon tetrafluoride \_\_\_\_\_
14. trisilicon tetranitride \_\_\_\_\_
15. trineptunium octoxide \_\_\_\_\_