

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Science 10: Naming Covalent Compounds

Write the name for each of the following compounds:

- |             |              |                |             |               |
|-------------|--------------|----------------|-------------|---------------|
| a. $B_2O_3$ | g. $SO_2$    | m. $S_4N_4$    | s. $BrO_2$  | y. $NF_3$     |
| b. $XeF_4$  | h. $Cl_2O_6$ | n. $NH_3$      | t. $SeF_6$  | z. $AsF_5$    |
| c. $CS_2$   | i. $As_2S_3$ | o. $CO$        | u. $SF_4$   | aa. $NBr_3$   |
| d. $N_2O$   | j. $Ge_3N_4$ | p. $B_4Cl_4$   | v. $P_4S_3$ | bb. $Te_2F_4$ |
| e. $O_2$    | k. $IF_7$    | q. $SiC$       | w. $SiSe_2$ | cc. $SeS_2$   |
| f. $PBr_3$  | l. $CIF$     | r. $P_4O_{10}$ | x. $CH_4$   | dd. $N_2O_4$  |

Write the formula for each of the following compounds:

- |                            |                          |                           |
|----------------------------|--------------------------|---------------------------|
| a. nitrogen trichloride    | k. diboron tetrafluoride | u. dibromine trioxide     |
| b. fluorine gas            | l. dicarbon monoxide     | v. phosphorus triiodide   |
| c. sulfur hexafluoride     | m. disulfur dinitride    | w. silicon tetrachloride  |
| d. iodine heptafluoride    | n. nitrogen triiodide    | x. dinitrogen pentoxide   |
| e. dichlorine heptoxide    | o. tetranitrogen         | y. trisulfur tetranitride |
| f. arsenic pentafluoride   | monoxide                 | z. diiodine pentoxide     |
| g. diselenium dichloride   | p. sulfur trioxide       | aa. tellurium dibromide   |
| h. tritellurium dichloride | q. radon difluoride      | bb. silicon dioxide       |
| i. xenon hexafluoride      | r. boron tribromide      | cc. chlorine trifluoride  |
| j. tetraselenium           | s. dinitrogen trioxide   | dd. tetraphosphorus       |
| tetrasulfide               | t. iodine trifluoride    | hexoxide                  |

### Questions

1. How can you tell the difference between an ionic and a covalent compound using their formulas?
2. How can you tell the difference between an ionic and a covalent compound using their names?
3. What is another name for a covalent compound?
4. What is different between how a covalent compound forms and an ionic compound forms?
5. Write the covalent prefixes for the numbers one to ten.