

Covalent Formula Writing/Naming Worksheet

Name: Key

1. Name the following covalent compounds:

- |                            |                                 |
|----------------------------|---------------------------------|
| a. $\text{SO}_3$           | <u>Sulfur trioxide</u>          |
| b. $\text{SiCl}_4$         | <u>Silicon tetrachloride</u>    |
| c. $\text{PBr}_3$          | <u>Phosphorus tribromide</u>    |
| d. $\text{CBr}_4$          | <u>Carbon tetrabromide</u>      |
| e. $\text{N}_2\text{O}_3$  | <u>Dinitrogen trioxide</u>      |
| f. $\text{N}_2\text{O}_5$  | <u>Dinitrogen pentoxide</u>     |
| g. $\text{CCl}_4$          | <u>Carbon tetrachloride</u>     |
| h. $\text{NI}_3$           | <u>Nitrogen triiodide</u>       |
| i. $\text{CO}$             | <u>Carbon monoxide</u>          |
| j. $\text{CO}_2$           | <u>Carbon dioxide</u>           |
| k. $\text{SiO}_2$          | <u>Silicon dioxide</u>          |
| l. $\text{PCl}_5$          | <u>Phosphorus pentachloride</u> |
| m. $\text{CS}_2$           | <u>Carbon disulfide</u>         |
| n. $\text{As}_2\text{O}_5$ | <u>Diarsenic pentoxide</u>      |
| o. $\text{SeF}_4$          | <u>Selenium tetrafluoride</u>   |
| p. $\text{P}_2\text{O}_3$  | <u>Diphosphorus trioxide</u>    |
| q. $\text{AsF}_3$          | <u>Arsenic trifluoride</u>      |
| r. $\text{B}_2\text{O}_3$  | <u>Diboron trioxide</u>         |

2. Write formulas for the following compounds:

- |                              |   |                            |   |
|------------------------------|---|----------------------------|---|
| a. Silicon disulfide         | <u><math>\text{SiS}_2</math></u>          | b. Diboron monosulfide     | <u><math>\text{B}_2\text{S}</math></u>    |
| c. Sulfur dioxide            | <u><math>\text{SO}_2</math></u>           | d. Xenon hexafluoride      | <u><math>\text{XeF}_6</math></u>          |
| e. Trisilicon tetraphosphide | <u><math>\text{Si}_3\text{P}_4</math></u> | f. Bismuth pentoxide       | <u><math>\text{Bi}_2\text{O}_5</math></u> |
| g. Difluorine monoxide       | <u><math>\text{F}_2\text{O}</math></u>    | h. Tetraboron tricarbide   | <u><math>\text{B}_4\text{C}_3</math></u>  |
| i. Dihydrogen monoxide       | <u><math>\text{H}_2\text{O}</math></u>    | j. Dihydrogen monoselenide | <u><math>\text{H}_2\text{Se}</math></u>   |
| k. Carbon disulfide          | <u><math>\text{CS}_2</math></u>           | l. Bismuth tribromide      | <u><math>\text{BiBr}_3</math></u>         |
| m. Phosphorus pentafluoride  | <u><math>\text{PF}_5</math></u>           | n. Arsenic pentiodide      | <u><math>\text{AsI}_5</math></u>          |
| o. Nitrogen trichloride      | <u><math>\text{NCl}_3</math></u>          | p. Diphosphorus trioxide   | <u><math>\text{P}_2\text{O}_3</math></u>  |
| q. Tellurium monosulfide     | <u><math>\text{TeS}</math></u>            | r. Carbon monosulfide      | <u><math>\text{CS}</math></u>             |