

Covalent Formula Writing/Naming Worksheet

Name: Key

1. Name the following covalent compounds:

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|----------------------------|---------------------------------|
| a. SO_3 | <u>Sulfur trioxide</u> |
| b. SiCl_4 | <u>Silicon tetrachloride</u> |
| c. PBr_3 | <u>Phosphorus tribromide</u> |
| d. CBr_4 | <u>Carbon tetrabromide</u> |
| e. N_2O_3 | <u>Dinitrogen trioxide</u> |
| f. N_2O_5 | <u>Dinitrogen pentoxide</u> |
| g. CCl_4 | <u>Carbon tetrachloride</u> |
| h. NI_3 | <u>Nitrogen triiodide</u> |
| i. CO | <u>Carbon monoxide</u> |
| j. CO_2 | <u>Carbon dioxide</u> |
| k. SiO_2 | <u>Silicon dioxide</u> |
| l. PCl_5 | <u>Phosphorus pentachloride</u> |
| m. CS_2 | <u>Carbon disulfide</u> |
| n. As_2O_5 | <u>Diarsenic pentoxide</u> |
| o. SeF_4 | <u>Selenium tetrafluoride</u> |
| p. P_2O_3 | <u>Diphosphorus trioxide</u> |
| q. AsF_3 | <u>Arsenic trifluoride</u> |
| r. B_2O_3 | <u>Diboron trioxide</u> |

2. Write formulas for the following compounds:

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|------------------------------|---|----------------------------|--|
| a. Silicon disulfide | <u>SiS_2</u> | b. Diboron monosulfide | <u>B_2S</u> |
| c. Sulfur dioxide | <u>SO_2</u> | d. Xenon hexafluoride | <u>XeF_6</u> |
| e. Trisilicon tetraphosphide | <u>Si_3P_4</u> | f. Bismuth pentoxide | <u>BiO_5</u> |
| g. Difluorine monoxide | <u>F_2O</u> | h. Tetraboron tricarbide | <u>B_4C_3</u> |
| i. Dihydrogen monoxide | <u>H_2O</u> | j. Dihydrogen monoselenide | <u>H_2Se</u> |
| k. Carbon disulfide | <u>CS_2</u> | l. Bismuth tribromide | <u>BiBr_3</u> |
| m. Phosphorus pentafluoride | <u>PF_5</u> | n. Arsenic pentiodide | <u>AsI_5</u> |
| o. Nitrogen trichloride | <u>NCl_3</u> | p. Diphosphorus trioxide | <u>P_2O_3</u> |
| q. Tellurium monosulfide | <u>TeS</u> | r. Carbon monosulfide | <u>CS</u> |