

Covalent Compounds Worksheet

- 1) Based on the properties of the following materials, determine whether they are made of primarily ionic compounds or covalent compounds:
 - a) telephone receiver: _____
 - b) concrete: _____
 - c) gasoline: _____
 - d) candy corn: _____

- 2) Name the following covalent compounds:
 - a) SiF_4 _____
 - b) N_2S_3 _____
 - c) HBr _____
 - d) Br_2 _____

- 3) Write the formulas for the following covalent compounds:
 - a) diboron hexahydride _____
 - b) nitrogen tribromide _____
 - c) sulfur hexachloride _____
 - d) diphosphorus pentoxide _____

- 4) Write the empirical formulas for the following compounds:
 - a) $\text{C}_2\text{H}_4\text{O}_2$ _____
 - b) boron trichloride _____
 - c) methane _____
 - d) $\text{C}_6\text{H}_{12}\text{O}_6$ _____

- 5) List three differences between ionic and covalent compounds: