

Chemistry
Ionic VS Molecular Compounds
Naming & Writing (Points)

Name _____

Molecular vs. Ionic Naming

Instructions: Determine whether the following compounds are ionic (I) or molecular (M) (circle one). Then use the correct rules to name the following compounds.

- a) M or I – K_2SO_4 _____
- b) M or I – Li_3N _____
- c) M or I – PCl_5 _____
- d) M or I – Cl_2O _____
- e) M or I – NBr_3 _____
- f) M or I – $Fe_2(SO_4)_3$ _____
- g) M or I – Na_2CO_3 _____
- h) M or I – S_4N_2 _____
- i) M or I – SO _____
- j) M or I – SO_2 _____

Molecular vs. Ionic Formulas

Instructions: The following contains a mixture of both ionic and molecular compounds. Determine whether the following compounds are ionic (I) or molecular (M) (circle one). Then determine the correct chemical formula from the name.

- a) M or I – Copper (II) chloride _____
- b) M or I – Ammonium carbonate _____
- c) M or I – Carbon tetrachloride _____
- d) M or I – Gallium chloride _____
- e) M or I – Diboron Tetrahydride _____
- f) M or I – Lead (II) bromide _____
- g) M or I – Sodium nitrate _____
- h) M or I – Carbon monoxide _____
- i) M or I – Diphosphorus pentoxide _____
- j) M or I – Lithium oxide _____