



## Ionic Compounds Practice Worksheet

### Naming Ionic Compounds

When naming ionic compounds, always write the metal first. All binary ionic compounds end with '-ide'

### Writing Ionic Formulas

When writing ionic formulas, first write the charge of each ion. Then 'cross-over' the charges and write each number as a subscript ( $X_2$ ). You don't need to write one. Like charges cancel out.

Write the chemical formula for each of the following compounds:

- a) sodium sulfide \_\_\_\_\_
- b) lithium hydride \_\_\_\_\_
- c) strontium nitride \_\_\_\_\_
- d) potassium oxide \_\_\_\_\_
- e) hydrogen bromide \_\_\_\_\_
- f) sodium fluoride \_\_\_\_\_
- g) lithium oxide \_\_\_\_\_
- h) calcium phosphide \_\_\_\_\_
- i) sodium chloride \_\_\_\_\_
- j) lithium chloride \_\_\_\_\_
- k) hydrogen sulfide \_\_\_\_\_
- l) potassium iodide \_\_\_\_\_

Write the name the following compounds:

- m)  $\text{CaS}$  \_\_\_\_\_
- n)  $\text{Na}_2\text{O}$  \_\_\_\_\_
- o)  $\text{MgBr}$  \_\_\_\_\_
- p)  $\text{Be}_3\text{P}_2$  \_\_\_\_\_
- q)  $\text{Li}_2\text{O}$  \_\_\_\_\_

## Covalent Compounds Practice Worksheet

### Naming Covalent Compounds

When naming covalent compounds, use prefixes to identify how many of each type of atom is present. All binary covalent compounds end with '-ide'

### Writing Ionic Formulas

When writing covalent formulas, write the chemical symbol for the corresponding element followed by a subscript corresponding to the number identified in the prefix.

### Covalent Prefixes

1	mono	5	pent	8	oct
2	di	6	hex	9	non
3	tri	7	hept	10	dec
4	tetra				

Write the name the following compounds:

- a) CO \_\_\_\_\_
- b) PCl<sub>5</sub> \_\_\_\_\_
- c) SO<sub>2</sub> \_\_\_\_\_
- d) P<sub>4</sub>O<sub>10</sub> \_\_\_\_\_
- e) CBr<sub>4</sub> \_\_\_\_\_
- f) CF<sub>4</sub> \_\_\_\_\_
- g) PF<sub>3</sub> \_\_\_\_\_
- h) NH<sub>3</sub> \_\_\_\_\_

Write the chemical formula for each of the following compounds:

- i) carbon tetrachloride. \_\_\_\_\_
- j) dinitrogen pentoxide \_\_\_\_\_
- k) nitrogen trichloride. \_\_\_\_\_
- l) carbon tetrabromide \_\_\_\_\_