

# Binary Ionic Compounds Worksheet

1. Write the **chemical formula** for the following binary ionic compounds.

- a. sodium fluoride \_\_\_\_\_
- b. potassium chloride \_\_\_\_\_
- c. calcium oxide \_\_\_\_\_
- d. lithium bromide \_\_\_\_\_
- e. beryllium chloride \_\_\_\_\_
- f. potassium sulphide \_\_\_\_\_
- g. magnesium nitride \_\_\_\_\_

- h. calcium phosphide \_\_\_\_\_
- i. magnesium oxide \_\_\_\_\_
- j. aluminum chloride \_\_\_\_\_
- k. sodium iodide \_\_\_\_\_
- l. potassium nitride \_\_\_\_\_
- m. lithium sulfide \_\_\_\_\_
- n. barium phosphide \_\_\_\_\_

2. Write the **name** for the following binary ionic compounds.

- a. LiCl \_\_\_\_\_
- b. MgS \_\_\_\_\_
- c. NaCl \_\_\_\_\_
- d. Al<sub>2</sub>O<sub>3</sub> \_\_\_\_\_
- e. CaS \_\_\_\_\_
- f. Zn<sub>3</sub>P<sub>2</sub> \_\_\_\_\_
- g. Be<sub>3</sub>P<sub>2</sub> \_\_\_\_\_

- h. Na<sub>2</sub>O \_\_\_\_\_
- i. KBr \_\_\_\_\_
- j. BeO \_\_\_\_\_
- k. CaF<sub>2</sub> \_\_\_\_\_
- l. BaBr<sub>2</sub> \_\_\_\_\_
- m. Na<sub>3</sub>N \_\_\_\_\_
- n. Al<sub>2</sub>S<sub>3</sub> \_\_\_\_\_

## Nomenclature Worksheet 2: Simple Binary Ionic Compounds

*Please complete the following table:*

| Name of Ionic Compound | Formula of Ionic Compound |
|------------------------|---------------------------|
| 1. Sodium bromide      |                           |
| 2. Calcium chloride    |                           |
| 3. Magnesium sulfide   |                           |
| 4. Aluminum oxide      |                           |
| 5. Lithium phosphide   |                           |
| 6. Cesium nitride      |                           |
| 7. Potassium iodide    |                           |
| 8. Barium fluoride     |                           |
| 9. Rubidium nitride    |                           |
| 10. Barium oxide       |                           |
| 11.                    | $K_2O$                    |
| 12.                    | $MgI_2$                   |
| 13.                    | $AlCl_3$                  |
| 14.                    | $CaBr_2$                  |
| 15.                    | $Na_3N$                   |
| 16.                    | $LiF$                     |
| 17.                    | $Ba_3P_2$                 |
| 18.                    | $Cs_2S$                   |
| 19.                    | $SrF_2$                   |
| 20.                    | $NaCl$                    |