

## Mixed Chemical Naming Worksheet

Name these compounds. They may be either ionic or covalent – indicate which are ionic and which are covalent compounds

- 1)  $\text{LiOH}$  Lithium hydroxide is an ionic compound
- 2)  $\text{PBr}_3$  Phosphorus tribromide is a covalent compound
- 3)  $\text{Na}_2\text{SO}_4$  Sodium sulfate is an ionic compound
- 4)  $(\text{NH}_4)_2\text{S}$  Ammonium sulfide is an ionic compound
- 5)  $\text{CaCO}_3$  Calcium carbonate is an ionic compound
- 6)  $\text{CF}_4$  Carbon tetrafluoride is a covalent compound
- 7)  $\text{NaNO}_3$  Sodium Nitrate is a compound
- 8)  $\text{P}_2\text{S}_3$  Diphosphorus trisulfide is a covalent compound
- 9)  $\text{Al}(\text{NO}_3)_3$  Aluminium nitrate is an ionic compound
- 10)  $\text{Mg}(\text{OH})_2$  Magnesium hydroxide is an ionic compound

Write the formulas for the following compounds. Remember, they may be either ionic or covalent compounds, so make sure you use the right method!

- 11) potassium oxide \_\_\_\_\_  $\text{K}_2\text{O}$  \_\_\_\_\_
- 12) phosphorus tribromide \_\_\_\_\_  $\text{PBr}_3$  \_\_\_\_\_
- 13) calcium hydroxide \_\_\_\_\_  $\text{Ca}(\text{OH})_2$  \_\_\_\_\_
- 14) dinitrogen sulfide \_\_\_\_\_  $\text{N}_2\text{S}$  \_\_\_\_\_
- 15) carbon monoxide \_\_\_\_\_  $\text{CO}$  \_\_\_\_\_
- 16) diboron tetrahydride \_\_\_\_\_  $\text{B}_2\text{H}_4$  \_\_\_\_\_
- 17) phosphorus pentabromide \_\_\_\_\_  $\text{PBr}_5$  \_\_\_\_\_
- 18) sulfur dichloride \_\_\_\_\_  $\text{SCl}_2$  \_\_\_\_\_
- 19) sodium carbonate \_\_\_\_\_  $\text{Na}_2\text{CO}_3$  \_\_\_\_\_
- 20) aluminum acetate \_\_\_\_\_  $\text{Al}(\text{CH}_3\text{COO})_3$  \_\_\_\_\_