

Ionic/Covalent Compound Naming Solutions

For each of the following questions, determine whether the compound is ionic or covalent and name it appropriately.

- 1) Na_2CO_3 **sodium carbonate**
- 2) P_2O_5 **diphosphorus pentoxide**
- 3) NH_3 **ammonia**
- 4) FeSO_4 **iron (II) sulfate**
- 5) SiO_2 **silicon dioxide**
- 6) GaCl_3 **gallium chloride**
- 7) CoBr_2 **cobalt (II) bromide**
- 8) B_2H_4 **diboron tetrahydride**
- 9) CO **carbon monoxide**
- 10) P_4 **phosphorus**

For each of the following questions, determine whether the compound is ionic or covalent and write the appropriate formula for it.

- 11) dinitrogen trioxide **N_2O_3**
- 12) nitrogen **N_2**
- 13) methane **CH_4**
- 14) lithium acetate **$\text{LiC}_2\text{H}_3\text{O}_2$**
- 15) phosphorus trifluoride **PF_3**
- 16) vanadium (V) oxide **V_2O_5**
- 17) aluminum hydroxide **$\text{Al}(\text{OH})_3$**
- 18) zinc sulfide **ZnS**
- 19) silicon tetrafluoride **SiF_4**
- 20) silver phosphate **Ag_3PO_4**