

Ionic/Covalent Bonding

1. Define an ionic bond and provide an example.
2. Define a covalent bond and provide an example.
3. For the following compounds, identify the metals, the non-metals, and the type of bond.
  - a. HF
  - b. NaCl
  - c. C<sub>4</sub>H<sub>10</sub>
  - d. Al<sub>2</sub>O<sub>3</sub>
  - e. CBr<sub>4</sub>
  - f. Na<sub>2</sub>S
  - g. Sr<sub>3</sub>N<sub>2</sub>
  - h. H<sub>2</sub>S
  - i. BaF<sub>2</sub>
  - j. C<sub>2</sub>H<sub>6</sub>
  - k. NO<sub>2</sub>
  - l. MgCl<sub>2</sub>
  - m. SO<sub>2</sub>
  - n. CaO
  - o. CuCl<sub>2</sub>
  - p. Fe<sub>2</sub>O<sub>3</sub>
  - q. H<sub>2</sub>O
  - r. K<sub>2</sub>O
  - s. TiO<sub>2</sub>
  - t. Rb<sub>2</sub>S