

**Lab questions:**

1. What kinds of elements generally form ionic compounds?

---

2. What kinds of elements generally form covalent compounds?

---

3. Based on the type of elements involved, predict whether each of the following compounds is primarily ionic or primarily covalent.

Sodium chloride (NaCl)

---

Copper (II) sulfate (CuSO<sub>4</sub>)

---

Potassium chloride (KCl)

---

Magnesium sulfate (MgSO<sub>4</sub>)

---

Glucose (aka sugar) C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>

---

Vinegar CH<sub>3</sub>COOH

---

4. What is an ionic bond?

5. What is a covalent bond?

6. What is the purpose of this experiment?