

23. Ionic Bonds and Compounds: Formation of Ionic Compounds

Refer to the periodic table. Classify the elements by the most likely charge of the ion the element will form.

Periodic Table of the Elements

The periodic table is color-coded to group elements with similar ion charges. The groups are:

- Ion with 2- Charge:** Fluorine (F), Oxygen (O), Nitrogen (N), and Nitrogen (N).
- Ion with 1- Charge:** Chlorine (Cl), Sulfur (S), Phosphorus (P), and Nitrogen (N).
- Ion with 1+ Charge:** Sodium (Na), Magnesium (Mg), Aluminum (Al), and Lithium (Li).
- Ion with 2+ Charge:** Magnesium (Mg), Aluminum (Al), Iron (Fe), and Zinc (Zn).

Ion with 2- Charge

Ion with 1- Charge

Ion with 1+ Charge

Ion with 2+ Charge

potassium (K)

selenium (Se)

oxygen (O)

beryllium (Be)

fluorine (F)

magnesium (Mg)

cesium (Cs)

bromine (Br)