

Ionic Charges and Chemical Families

Group 1: Alkali Metals					
Element Name	# Valence Electrons	Lewis Dot Diagram	Charge on Atom	Ion Symbol	Diagram of Stable Ion

Group 2: Alkaline Earth Metals					
Element Name	# Valence Electrons	Lewis Dot Diagram	Charge on Atom	Ion Symbol	Diagram of Stable Ion

Group 17: Halogens					
Element Name	# Valence Electrons	Lewis Dot Diagram	Charge on Atom	Ion Symbol	Diagram of Stable Ion

Group 18: Noble Gases			
Element Name	# Valence Electrons	Lewis Dot Diagram	Will Atom Form an Ion?

1. Describe the pattern that you see in the Lewis Dot Diagrams as you go left to right across the Periodic Table (skipping the transition metals).

2. Describe the pattern of ion charges as you go left to right across the Periodic Table.

Metallic Elements					
Element Name	# Valence Electrons	Lewis Dot Diagram	Charge on Atom	Ion Symbol	Diagram of Stable Ion
Sodium					
Magnesium					
Aluminum					

Non-metallic Elements					
Element Name	# Valence Electrons	Lewis Dot Diagram	Charge on Atom	Ion Symbol	Diagram of Stable Ion
Nitrogen					
Oxygen					
Fluorine					

3. What charges do metals tend to form?

4. What charges do non-metals tend to form?