

Lewis Symbols and Forming ions for Ionic Bonding

Element	Symbol	Atomic Number	Group Number	Valence Electrons	Lewis Symbol	Electrons to lose or gain	Resulting Charge	ION Lewis Symbol	Cation or Anion	Metal or nonmetal
Lithium	Li	3	1	1		Lose 1	+1		cation	metal
		4								
		5								
		6								
		7								
		8								
		9								
		10								
		11								
		12								
		13								
		14								
		15								
		16								
		17								
		18								

Forming Ionic Compounds

	Metal Element	Nonmetal Element	Metal Element	Nonmetal Element	Metal Element	Nonmetal Element
Elements	Sodium	Chlorine	Potassium	Oxygen	Magnesium	Fluorine
Lewis Symbols						
Needs for octet						
Additional Atoms if required						
Resulting Ions						
Summary						
	Metal Element	Nonmetal Element	Metal Element	Nonmetal Element	Metal Element	Nonmetal Element
Elements	Lithium	Bromine	Rubidium	Sulfur	Calcium	Iodine
Lewis Symbols						
Needs for octet						
Additional Atoms if required						
Resulting Ions						
Summary						