

Unit 5 Ions & Chemical Bonding
Intro to Chemical Bonding Worksheet

Name _____
Block # _____

Ionic Bonding occurs when a metal transfers its valence electrons to a nonmetal. The metal becomes a positive ion (cation) and the nonmetal becomes a negative ion (anion). Both ions are more stable because they have all 8 valence electrons for a full octet.

Elements	Ionic Bonding Process	Formula	Nomenclature
Sodium & Chlorine			
Potassium & Oxygen			
Lithium & Nitrogen			
Calcium & Chlorine			
Sodium & Sulfur			
Aluminum & Oxygen			
Zinc & Oxygen			

Unit 5 Ions & Chemical Bonding
Common Covalent Bonds

Name _____ Block# _____

Diatomic Elements	Covalent Bonding Process	Formula	Nomenclature
Hydrogen			
Nitrogen			
Oxygen			
Fluorine			
Chlorine			
Bromine			
Iodine			

Common Covalent Molecules	Formula	Covalent Bonding Structure
Water		
Carbon Dioxide		
Ammonia		
Methane		
Hydrochloric Acid		