

Bonding Basics - Ionic Bonds

Name _____

Complete the chart for each element.

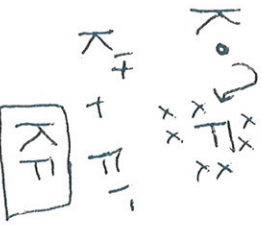
Element	# of Protons	# of Electrons	# of Valence Electrons	Oxidation Number
Sodium	11	10	1	+1
Chlorine				
Beryllium				
Fluorine				
Lithium				
Oxygen				
Phosphorus				

(3) Sodium + Oxygen

(4) Sodium + Chlorine

Follow your teacher's directions to complete each ionic bond.

(1) Potassium + Fluorine

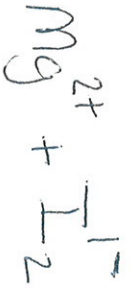


(5) Calcium + Chlorine

(2) Magnesium + Iodine



(6) Aluminum + Chlorine



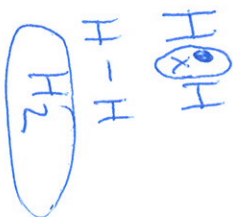
Bonding Basics - Covalent Bonds

Complete the chart for each element.

Element	# of Protons	# of Electrons	# of Valence Electrons	# of Electrons to Fill Outer Shell
Carbon	6	6	4	4
Chlorine				
Hydrogen				
Phosphorus				
Oxygen				
Sulfur				
Nitrogen				

Follow your teacher's directions to complete each covalent bond.

(1) Hydrogen + Hydrogen



(2) Hydrogen + Oxygen



(3) Chlorine + Chlorine

(4) Phosphorus + Chlorine

(5) Boron + Fluorine

(6) Hydrogen + Chlorine

(7) Nitrogen + Hydrogen

(8) Carbon + Hydrogen