

Name _____

Bonding Basics

1. What is an octet? _____ Why is it important? _____

2. Fill in the following table

Bond Type	Ionic	Covalent	Metallic
Type of elements that bond together			
What happens to valence electrons in a bond?			

3. Fill in the table below:

FORMULA	1 st Element (M or NM)	2 nd Element (M or NM)	CLASSIFICATION (Ionic, Covalent or Metallic?)
NaBr			
SF₆			
CoBr₂			
K			
NO₂			
C₆H₆			
CrCl₃			
CO₂			

4. Using your Periodic Table of elements, fill in the table for the following atoms:

Atom	Electron Configuration	Ion Charge	Lose or Gain electron(s) and how many	New electron configuration	Like which Noble Gas?
Ex) Mg	2 – 8 – 8 – 2	+2	LOSE 2 e⁻	2 – 8 – 8	Argon
Cl					
Al					
S					
P					
Be					