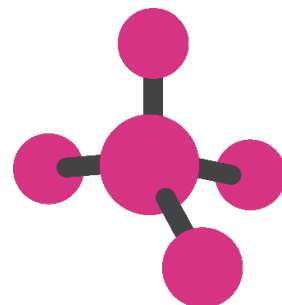


Ionic Bonding - Introduction

Element	Number of Electrons	Number of Valence Electrons	Ion Formed
Potassium (K)			
Iodine (I)			
Phosphorus (P)			
Magnesium (Mg)			



Learning the Criss-Cross Method (do the charges balance out?)

Example 1: Potassium (K) + Iodine (I)	Example 3: Calcium (Ca) + Oxygen (O)
Example 2: Potassium (K) + Oxygen (O)	Example 4: Magnesium (Mg) + Chlorine (Cl)

Name _____ Period _____

Ionic Bonding – Practice Problems

Complete the problems below to create the correct compound when both elements are bonded.

1) Calcium (Ca) + Sulfur (S)

2) Magnesium (Mg) + Oxygen (O)

3) Boron (B) + Phosphorus (P)

4) Calcium (Ca) + Oxygen (O)

5) Sodium (Na) + Phosphorus (P)

6) Potassium (K) + Oxygen (O)

7) Sodium (Na) + Oxygen (O)

8) Sodium (Na) + Iodine (I)

9) Boron (B) + Nitrogen (N)

10) Potassium (K) + Nitrogen (N)

11) Aluminum (Al) + Chlorine (Cl)

12) Beryllium (Be) + Fluorine (F)

13) Lithium (Li) + Oxygen (O)

14) Aluminum (Al) + Bromine (Br)

15) Calcium (Ca) + Iodine (I)

16) Potassium (K) + Sulfur (S)