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Chemistry**Homework: Ionic Bonding & Polyatomic Ions**

1. Use the periodic table to complete the following table:

Compound	Cation	Anion	Chemical Formula
Beryllium Sulfide			
Magnesium Phosphide			
Calcium Iodide			
Potassium Chloride			
Barium Sulfide			
Rubidium Phosphide			

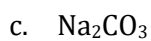
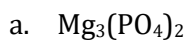
2. Draw the Bohr model for magnesium and sulfur.
- In another color, draw an arrow on your models to show how the electrons move, forming two ions.
 - Write the compound name **and** the formula for the compound that will form.
3. Based on the formula below, write the name of each compound.
- Li_2Se
 - Ca_3P_2
 - Cs_3N

Name: _____ Period: _____

4. Use the periodic table and your knowledge of polyatomic ions to complete the following table:

Compound	Cation	Anion	Chemical Formula
Potassium Sulfate			
Barium Carbonate			
Potassium Hydroxide			
Rubidium Nitrate			
Aluminum Phosphate			
Ammonium Chloride			

5. Based on the formula below, write the name of each compound.



6. Explain the difference between the four different types of bonding.