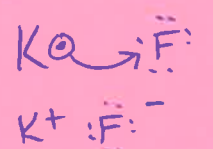
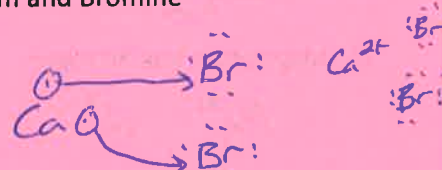
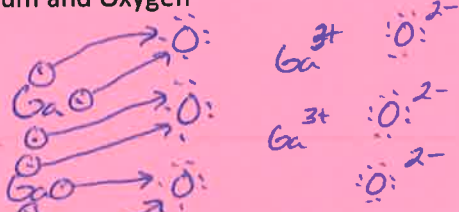
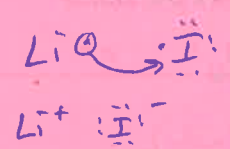
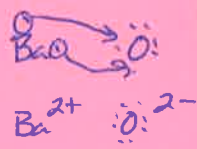



Lewis Dot Practice

Name Key
 Block Date

Use electronegativity to predict the type of bond that will occur between the following elements and use Lewis Dot structures (including charges) to show how they will bond together. Write the resulting formula below your diagram.

<p>1) Potassium and Fluorine</p>  <p>$\Delta EN: \underline{4.0} - \underline{0.8} = \underline{3.2}$ Element w/ greater pull on e- : <u>F</u> Formula: <u>KF</u></p>	<p>2) Calcium and Bromine</p>  <p>$\Delta EN: \underline{2.8} - \underline{1.0} = \underline{1.8}$ Element w/ greater pull on e- : <u>Br</u> Formula: <u>CaBr₂</u></p>
<p>3) Gallium and Oxygen</p>  <p>$\Delta EN: \underline{3.5} - \underline{1.6} = \underline{1.9}$ Element w/ greater pull on e- : <u>O</u> Formula: <u>Ga₂O₃</u></p>	<p>4) Iodine and Lithium</p>  <p>$\Delta EN: \underline{2.5} - \underline{1.0} = \underline{1.5}$ Element w/ greater pull on e- : <u>I</u> Formula: <u>LiI</u></p>
<p>5) Oxygen and Barium</p>  <p>$\Delta EN: \underline{3.5} - \underline{0.9} = \underline{2.6}$ Element w/ greater pull on e- : <u>O</u> Formula: <u>BaO</u></p>	<p>6) Magnesium and Nitrogen</p>  <p>$\Delta EN: \underline{3.0} - \underline{1.2} = \underline{1.8}$ Element w/ greater pull on e- : <u>N</u> Formula: <u>Mg₃N₂</u></p>

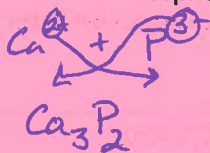
7) Other than calculating ΔEN , what is another way you can predict the type of bond that will occur between 2 atoms?

Ionic = Metal + Non-Metal
 Covalent = Non-Metal + Non-Metal

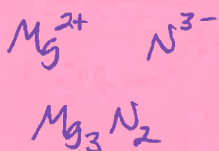
Use your knowledge of ionic charges to predict the formulas for compounds made from the following ions/polyatomic ions.

Predict Charges → Criss-Cross Charges → Write Formula

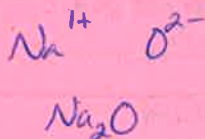
- 1) Calcium and Phosphorous



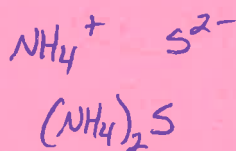
- 2) Magnesium and Nitrogen



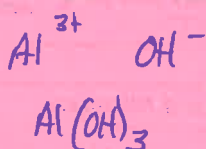
- 3) Oxygen and Sodium



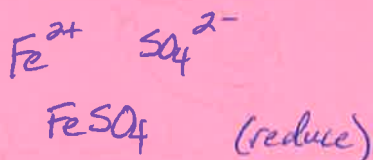
- 4) Ammonium and Sulfur



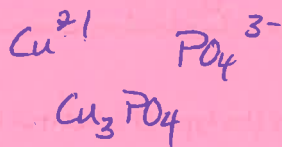
- 5) Aluminum and Hydroxide



- 6) Iron (II) and Sulfate



- 7) Copper (I) and Phosphate



- 8) Vanadium (III) and Acetate

