

Name:

Block:

Date:

Polyatomic Ions

Warm-up!

Use a **Bohr or Lewis diagram** to show the following ionic electron transfers when bonding. State the chemical formula and name of each.

a) Potassium and Oxygen

b) Beryllium and Phosphorus

Chemical Name: _____

Chemical Name: _____

Formula: _____

Formula: _____

Write the names of the following compounds that use polyatomic ions:

Formula	Name
Li_2CO_3	
$\text{Mg}(\text{HCO}_3)_2$	
Na_2SO_4	
K_2SO_3	
$\text{Ba}(\text{OH})_2$	
$\text{Al}(\text{CN})_3$	
$(\text{NH}_4)_3\text{PO}_4$	
$\text{Fe}(\text{NO}_3)_2$	
$\text{Mg}(\text{OH})_2$	
Cu_3PO_4	
Ag_2CrO_4	
$\text{Rb}_2\text{Cr}_2\text{O}_7$	
NH_4F	
$\text{Co}(\text{HSO}_3)_2$	

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Write the formulas for the following compounds:

Elements/Polyatomic Ions	Formula
Sodium carbonate	
Strontium chlorate	
Cesium cyanide	
Barium hydrogen carbonate	
Zinc hydrogen sulphate	
Strontium phosphate	
Calcium hydroxide	
Ammonium sulphide	
Ammonium sulphate	
Ammonium sulphite	
Copper (II) nitrate	
Chromium (III) chlorite	
Potassium dichromate	
Sodium chromate	
Manganese (II) phosphite	
Magnesium sulphite	
Lead (II) perchlorate	
Tin (IV) phosphate	
Aluminum hydroxide	
Beryllium carbonate	