

Polyatomic Ions

Name _____ Period _____ Date _____

Instructions: complete this table by writing each formula and naming each compound!

	Carbonate ____	Phosphate ____	Hydroxide ____	Sulfate ____	Nitrate ____	Acetate ____
Ammonium ____						
Barium ____						
Lithium ____						
Aluminum ____						
Iron (II) ____						
Cobalt (III) ____						
Copper (I) ____						
Lead (IV) ____						

1. Write the formula for each of the following compounds that contain polyatomic ions. Be sure to enclose the polyatomic ion in parentheses if more than one such ion is needed.

Name	Formula	Name	Formula
Calcium phosphate		Iron (III) acetate	
Ammonium nitrate		Barium sulfate	
Aluminum carbonate		Copper (I) hydroxide	

2. Name each of the following compounds, which contain polyatomic ions.

Formula	Name	Formula	Name
$\text{Fe}(\text{NO}_3)_3$		$\text{Al}_2(\text{SO}_4)_3$	
$\text{Co}_3(\text{PO}_4)_2$		$\text{Cr}(\text{C}_2\text{H}_3\text{O}_2)_2$	
$\text{Cr}(\text{OH})_3$		$(\text{NH}_4)_2\text{SO}_4$	