

## RQ for Polyatomic Ions

Name: \_\_\_\_\_

Date: \_\_\_\_\_

- How many total atoms are in a molecule of Boron Phosphate  $B_3(PO_4)_3$ ?  
A. 3      B. 7      C. 17      D. 18
- What is the name of  $KC_2H_3O_2$ ?  
A. potassium acetate  
B. potassium carbonate  
C. potassium chlorate  
D. potassium oxide
- What is the correct formula for Barium Phosphate?  
A.  $Ba(PO_4)^{-3}$       B.  $Ba_4(PO)_3$   
C.  $Ba_3PO_4$       D.  $Ba_3(PO_4)_2$
- Limestone is also known as Calcium Carbonate, What is the correct formula for calcium carbonate?  
A.  $Ca_4C_2$       B.  $Ca_2(CO_2)_3$   
C.  $Ca_3(CO_2)_2$       D.  $Ca_2(CO_3)_2$
- What is the correct name for  $NH_4OH$ ?  
A. Ammonia  
B. Ammonium Hydroxide  
C. Sodium Acetate  
D. Sodium Hydroxide
- Soda ash, or sodium carbonate, is used in glassmaking. It is composed of sodium ions and carbonate ions. Which of the following is the chemical formula of sodium carbonate?  
A.  $NaCO_3$       B.  $Na_2CO_3$   
C.  $Na_4C_2O_6$       D.  $Na(CO_3)_2$
- What is the *correct* name for the compound with the chemical formula  $NH_4NO_3$ ?  
A. ammonium nitrate  
B. hydro-nitrogen oxide  
C. ammonia mononitrite  
D. nitro-hydrogen nitrate
- What is the name of the compound with the chemical formula  $(NH_4)_2S$ ?  
A. ammonium sulfide      B. hydrogen sulfate  
C. sulfur hydride      D. sulfuric acid
- Which chemical formula represents magnesium phosphate?  
A.  $MgPO_4$       B.  $Mg_2PO_4$   
C.  $Mg_3(PO_4)_2$       D.  $Mg_2(PO_4)_3$
- What is the chemical formula for calcium nitrate?  
A.  $CaNO_3$       B.  $Ca(NO_2)_2$   
C.  $Ca(NO_3)_2$       D.  $Ca_3N_2$