

Name: \_\_\_\_\_  
Period: \_\_\_\_\_ Date: \_\_\_\_\_

### Naming Ionic Substances Worksheet

1. You can tell that a chemical formula contains a polyatomic ion if it has more than \_\_\_\_\_ capital letters.
2. Name, or give the formula for, these polyatomic ions:
  - a. Ammonium \_\_\_\_\_
  - b. Phosphate \_\_\_\_\_
  - c. Sulfate \_\_\_\_\_
  - d. Hydroxide \_\_\_\_\_
  - e. \_\_\_\_\_  $\text{CO}_3^{-2}$
  - f. \_\_\_\_\_  $\text{NO}_3^{-1}$
  - g. \_\_\_\_\_  $\text{C}_2\text{H}_3\text{O}_2^{-1}$
  - h. \_\_\_\_\_  $\text{HCO}_3^{-1}$
3. If a polyatomic ion has 1 less oxygen than the **-ate** ion, its name will end in \_\_\_\_\_.
4. Write the names of these compounds:
  - a.  $\text{Ca}_3(\text{PO}_4)_2$  \_\_\_\_\_
  - b.  $\text{KNO}_3$  \_\_\_\_\_
  - c.  $\text{BaSO}_4$  \_\_\_\_\_

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