Science 9 Chemistry Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**POLYATOMIC IONIC COMPOUNDS**

**PART A: CHEMICAL FORMULAS**

Write the chemical formulas for the following compounds containing polyatomic ions.

**In-Class Practice:**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. calcium nitrite
 |  | 1. calcium nitrate
 |  |
| 1. potassium permanganate
 |  | 1. ammonium chlorite
 |  |

**Individual Practice:**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. sodium sulphate
 |  | 1. calcium phosphate
 |  |
| 1. aluminum nitrate
 |  | 1. ammonium hydrogen sulphate
 |  |
| 1. lead(IV) chlorate
 |  | 1. iron(III) carbonate
 |  |

**PART B: NAMING COMPOUNDS**

Write the names of the following compounds containing polyatomic ions. Are there any multivalent metal ions? Indicate them using Roman Numerals.

**In-Class Practice:**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. NaCH3COO
 |  | 1. (NH4)3P
 |  |
| 1. Ca(CH3COO)2
 |  | 1. (NH4)3PO4
 |  |

**Individual Practice:**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. Mg(OH)2
 |  | 1. K2SO4
 |  |
| 1. Al(HCO3)3
 |  | 1. Cu2CO3
 |  |
| 1. Fe(MnO4)2
 |  | 1. (NH4)2SO4
 |  |