

Name \_\_\_\_\_ Period \_\_\_\_\_

CP Chemistry of the Earth

Assignment 4I – Binary Ionic Compound Review

20 Points

*For the following representative metal and non-metal atoms, determine the ion name and charge*

| Atomic Symbol | Periodic Group* | Neutral Atom Name | Ion Charge | Metal or Non-Metal Ion Name<br>( <i>Ion Name + Ion</i> )** |
|---------------|-----------------|-------------------|------------|------------------------------------------------------------|
| K             |                 |                   |            |                                                            |
| Al            |                 |                   |            |                                                            |
| Mg            |                 |                   |            |                                                            |
| P             |                 |                   |            |                                                            |
| O             |                 |                   |            |                                                            |
| Br            |                 |                   |            |                                                            |

\*1A – 8A or 1 – 2, 13 – 18, \*\* Check chart for correct ending, anions -ide, cations, no change

|               |                  |   |                 |   |                  |    |
|---------------|------------------|---|-----------------|---|------------------|----|
| Elements      | K                | N | Al              | S | Mg               | Cl |
| Ion Charge    |                  |   |                 |   |                  |    |
| Cross Method  |                  |   |                 |   |                  |    |
| Ionic Formula |                  |   |                 |   |                  |    |
| Elements      | Zn <sup>1+</sup> | P | V <sup>3+</sup> | O | Cr <sup>2+</sup> | Br |
| Ion Charge    |                  |   |                 |   |                  |    |
| Cross Method  |                  |   |                 |   |                  |    |
| Ionic Formula |                  |   |                 |   |                  |    |