CHEMISTRY WORK SHEET:

Chapter 7 - Ionic Compounds - #1

I. Complete the following chart by first filling in the charges on each metal and non-metal using the periodic table. **Book Reference: Formulas -Chapter 7, pp 194-203**

**Naming – Chapter 9, pp271-277**

A B C D E

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Ionic Comp. | Cl | O | N | S | P |
| K |  |  |  |  |  |
| Ca | CaCl2 |  |  |  |  |
| Al |  |  |  |  |  |
| Mg |  |  |  |  |  |
| Li |  |  |  |  |  |

II. Name the potassium and aluminum compounds from the chart above.

K Al

potassium chloride

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

CHEMISTRY WORK SHEET:

Chapter 7 - Ionic Compounds - # 2

I. Complete the following chart. **Book Reference: Chapter 9, pp 276-279**

A B C D E

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Ionic Comp. | ClO3- | SO42- | NO3- | CO32- | PO43- |
| K |  |  |  |  |  |
| Ca |  |  |  |  |  |
| Al | Al(ClO3)3 |  |  |  |  |
| Mg |  |  |  |  |  |
| NH4+ |  |  |  |  |  |

II. Name the magnesium and calcium compounds.

Mg Ca

magnesium chlorate

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

CHEMISTRY WORK SHEET:

Chapter 7 - Ionic Compounds - #3 Ionic compounds containing transition metals

I. Complete the following chart. **Book Reference: Ch 9, pp 264-279**

A B C D E

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Ionic Comp. | F1- | SO42- | NO3- | Te2- | PO43- |
| Cu1+ | CuF2 |  |  |  |  |
| Mn3+ |  |  |  |  |  |
| Fe3+ |  |  |  |  |  |
| Fe2+ |  |  |  |  |  |
| V5+ |  |  |  |  |  |

II. Name the iron compounds.

Fe3+ Fe2+

iron (III) fluoride

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

CHEMISTRY WORK SHEET:

Chapter 7 - Ionic Compounds #4

I. Complete the following tables: **Book Reference: This is a summary of the others**.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Ionic Comp. | bromide | Oxide | nitride | telluride | arsenide |
| potassium | KBr |  |  |  |  |
| vanadium  (V) |  |  |  |  |  |
| indium |  |  |  |  |  |
| copper(II) |  |  |  |  |  |
| barium |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Ionic Comp. | ClO3- | SO42- | NO3- | CO32- | PO43- |
| K | KClO3 |  |  |  |  |
| Ra |  |  |  |  |  |
| Cu1+ |  |  |  |  |  |
| Mn3+ |  |  |  |  |  |
| Fe2+ |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Ionic Comp. | fluoride | sulfite | nitrate | selenide | phosphate |
| ammonium | NH4F |  |  |  |  |
| iron (III) |  |  |  |  |  |
| silver |  |  |  |  |  |