|  |  |
| --- | --- |
| **Group Name:** |  |

**Nomenclature Worksheet**

## **LibreTexts page:** [2: Nomenclature](https://chem.libretexts.org/Courses/University_of_Arkansas_Little_Rock/Chem_1402%3A_General_Chemistry_1_%28Belford%29/Laboratory/02%3A_Experiment_2_-_Nomenclature)

## <https://chem.libretexts.org/link?214085>

**Please don’t edit, rearrange or delete anything that is already in this document. Just fill in the answers.**

**Use shortcuts for superscripts and subscripts:**

****

# **Part I**

**Write the names of monatomic ions.**

|  |  |
| --- | --- |
| **Ion** | **Name** |
| **Ca2+** |  |
| **S2-** |  |
| **Fe3+** |  |
| **I-** |  |
| **Hg2+** |  |
| **Br-** |  |
| **Co2+** |  |

# **Part II**

**Combine each pair of ions, write formulas of the compounds they form and compounds names.**

|  |  |  |
| --- | --- | --- |
| **Ions** | **Compound formula** | **Compound name** |
| **Al3+ and O2-** |  |  |
| **Ni2+ and S2-** |  |  |
| **Cu2+ and P3-** |  |  |
| **K+ and CrO42-** |  |  |
| **Sn4+ and Cl-** |  |  |
| **Co2+ and NO2-**  |  |  |
| **Mg2+ and F-** |  |  |
| **Ca2+ and Br-** |  |  |

# **Part III**

**Name compounds and write ions it consists of.**

|  |  |  |
| --- | --- | --- |
| **Compound**  | **Name** | **Ions** |
| **LiCN** |  |  |
| **Co3N2** |  |  |
| **Sn(Cr2O7)2** |  |  |
| **Fe2(SO4)3** |  |  |
| **Ni(MnO4)2** |  |  |
| **K2SO3** |  |  |

# **Part IV**

**Name each covalent compound from its formula.**

|  |  |
| --- | --- |
| **Compound** | **Name** |
| **PCl3** |  |
| **SF2** |  |
| **NCl3** |  |
| **CCl4** |  |
| **PI5** |  |
| **SO3** |  |

# **Part V**

**Write formulas for each compound.**

|  |  |
| --- | --- |
| **Name** | **Formula** |
| **Ammonium bicarbonate** |  |
| **Dichlorine heptoxide** |  |
| **Dinitrogen pentasulfide** |  |

# **Part VI**

**Fill in missing information for the following acids.**

|  |  |
| --- | --- |
| **Formula** | **Name** |
| **H3PO3** |  |
|  | **Sulfurous acid** |
| **H2SO4** |  |
|  | **Phosphoric acid** |
|  | **Hypochlorous acid** |
| **HNO3** |  |
|  | **Acetic acid** |
| **HIO** |  |

# **Part VII**

Fill in the missing information.

|  |  |
| --- | --- |
| **Formula** | **Name** |
|  | **Zinc sulfate** |
| **Fe2(SO4)3** |  |
|  | **Barium hydroxide** |
| **PbS2** |  |
| **Al(CN)3** |  |
|  | **Manganese (II) sulfide** |
| **PbS** |  |
|  | **Vanadium (V) oxide** |