**C.3c-Activity - Naming Ionic Compounds Exploration**

Below is a chart of ions including their formula and names.

Your goal is as a group to figure out the process for:

* Going from formula of compounds to naming compounds
* Going from names of compounds to formula

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Formula** | **Name** | **Formula** |
| Calcium Chloride | CaCl2 | Aluminum Oxide | Al2O3 |
| Lithium Nitride | Li3N | Iron (III) Fluoride | FeF3 |
| Barium Sulfide | BaS | Gallium Nitride | GaN |
| Magnesium Fluoride | MgF2 | Copper (II) Chloride | CuCl2 |
| Mangenese (VII) oxide | Mn207 | Iron (II) Fluoride | FeF2 |
| Potassium Iodide | KI | Chromium (III) Oxide | Cr2O3 |
| Mercury (II) Bromide | HgBr2 | Strontium Selenide | SrSe |
| Tin (IV) Chloride  | SnCl4 | Beryllium Sulfide | BS |
| Potassium Fluoride | KF | Aluminum Nitride | AlN |

1. Explain the rules for naming compounds from the formula.

(Hints: What atoms have roman numerals? Which comes first and second? Do the number of atoms in each compound matter?)

1. Explain the rules for making formulas from the ionic names.

(Hints: What is the overall charge? What atoms have roman numerals? Which comes first and second? Do the number of atoms in each compound matter?)