**Ionic Compounds: Naming and Formula Writing**

**Integrated Chemistry – Matter Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Per:\_\_\_\_**

**Complete the following table using the clues provided.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Sample*** ***Problem*** | **K+** | **Cl-** | **KCl** | **Potassium****Chloride** |
| **1.** |  |  |  |  |
| **2.** |  |  |  |  |
| **3.** |  |  |  |  |
| **4.** |  |  |  |  |
| **5.** |  |  |  |  |
| **6.** |  |  |  |  |
| **7.** |  |  |  |  |
| **8.** |  |  |  |  |
| **9.**  |  |  |  |  |
| **10.** |  |  |  |  |

*Sample Problem: Potassium chloride is the primary ingredient in table-salt substitutes used by people on low-sodium diets.*

1. Sodium iodide is one of the sources of halide ions used in experiments.
2. The blue solution you used in Properties of Matter Lab was probably copper(II) chloride.
3. Baking soda, also used in the Properties of Matter Lab, is sodium hydrogen carbonate.
4. CaSO4 is a component of plaster.
5. A substance composed of Ca2+ and PO43- ions is found in some brands of phosphorus-containing fertilizer.
6. Ammonium nitrate, a rich source of nitrogen, is often used in fertilizer mixtures.
7. Aluminum sulfate is a compound sometimes used to help purify water.
8. Magnesium hydroxide is called milk of magnesia when it is mixed with water.
9. Limestone and marble are two common forms of the compound calcium carbonate.
10. Silver nitrate, a compound used to make photographic film, will also be used in an upcoming investigation.