**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_**

**Naming Molecular and Ionic Compounds**

***Outcome:***

***Can I provide the IUPAC (international union of pure and applied chemistry) name and common name of molecular and ionic compounds of two elements?***

**Instructions:**

**Determine if each of the following compounds is molecular or ionic, and then fill in the blanks.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Formula** | **Molecular or Ionic Compound** | **Scientific Name** | **Common Name** |
| CH4 |  |  | Methane |
| P2O5 |  |  |  |
| HCl |  |  | Hydrochloric acid |
|  |  | potassium iodide |  |
| Mg3P2 |  |  |  |
| NH3 |  |  | Ammonia |
|  |  | dinitrogen tetrahydride |  |
|  |  | sodium chloride |  |
| ICl5 |  |  |  |
| H2O |  |  | Water |
| NI3 |  |  |  |
| CO2 |  |  |  |
| CaCl2 |  |  |  |
| C4H10 |  |  | Butane |
| S4N2 |  |  |  |
|  |  | dihydrogen dioxide | Hydrogen peroxide |
|  |  | tricarbon octahydride | Propane |
| H2S |  |  | Sulphuric acid |