**Name That Binary Compound: Ionic versus Covalent**

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| **Ionic Compounds** | **Covalent Compounds** |
| M lose electrons to NM | NM share electrons with NM |
| M become positive ions--NM become negative **ions**--**Ion Aggregates** | NM forms a covalent bond with NM--**Molecules** |
| e.g. Al2O3 | e.g. NH3 |
| **Given the name write the formula:**  Determine the **charge** on each element.  Balance the **charges**. | **Given the name write the formula:**  Change the prefix into a # subscript for the first element.  Change the prefix into a # subscript for the second element. |
| Beryllium Phosphide | Diphosphorus trinitride |
| **Given the formula--name it.**  **JUST NAME IT!**  **First element**   * the metal * full name   **Second element**   * the nonmetal * chopped * ending = "IDE" | **Given the formula--name it.**  **MONO, DI, TRI IT!**  **First element**   * the nonmetal * full name * DI, TRI it   **Second element**   * the nonmetal * MONO, DI, TRI it * chopped * ending = "IDE" |
| e.g. Mg3P2 | e.g. N2Cl4 |