**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 |