How to tell the difference:

**Binary Molecular Compounds**

* Covalent bonding
* Nonmetal + Nonmetal
* 2 Elements Involved
* Combine in more than 1 way**Binary Ionic Compounds**
* Ionic bonding
* Metal + Nonmetal
* 2 Elements Involved
* Combine in only 1 way

**Binary Molecular Compounds**

1. Write 2 element names according to the formula order
2. Add prefixes where necessary

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| mono | di | tri | tetra | penta | hexa | hepta | octa | nona | deca |

1. 2nd word ends “-ide”

How to tell the difference:

**Acids**

* Ionic bonding
* **Hydrogen** ion(s) + Anion(s)
* Hydrogen = H+**Bases**
* Ionic bonding
* Cation(s) + **Hydroxide** ion(s)
* Hydroxide = OH-

**Acids**

1. -IDE: “Hydro- (stem) -IC Acid”
2. -ITE: “(Stem) -OUS Acid”
3. -ATE: “(Stem) -IC Acid”

**Bases**

1. Write Cation name
2. Followed by: “hydroxide”