**Compound Naming Diagram**

**Is the compound a metal and a non metal?**

 **Yes**  **No**

Ionic Covalent

(Metal + Non Metal) (Non metal + Non Metal)

 Check number for prefix (mono, di etc.)

 Carbon dioxide (CO2)

 **(NOT IN SCIENCE 9, do not study it)**

**Does it have multiple ion charges (multivalent)?**

**Yes** **No**

Check which ion charge to use (reverse swap and drop) “Metal” “Non Metal +ide ending”

Add Roman numeral Sodium Chloride (NaCl)

“Metal” (Roman numeral) “Non Metal +ide ending”

(CuCl2) = Copper (II) Chloride

**Name Formula**

1. Write the symbols
2. Write the charges
3. Balance charges or swap and drop
4. Double check your work!!!!

**Formula Name**

1. See Diagram

**Does it have any polyatomic ions?**

**Yes**  **No**

“Metal” “Polyatomic ion” or Same as above

“Polyatomic ion” “Non Metal” or

“polyatomic ion” “poly atomic ion”

Sodium hydroxide (NaOH)

Ammonium Chloride (NH4Cl)

Ammonium hydroxide (NH4OH)