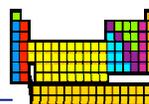


Naming Compounds:...

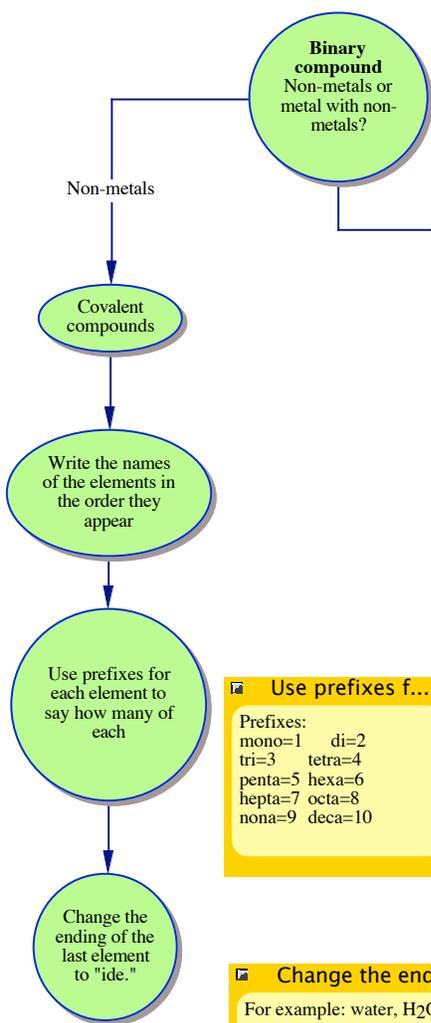
Follow the flow chart, and it will work, I promise.
If you try to skip steps, you may get thrown off.



**Naming Compounds:
two elements or
more than two?**

Look for Poly...

These will likely have a group of non-metals. You have to memorize these. Look up: nitrate, nitrite, carbonate, sulfate and Ammonium. All common ones but ammonium are anions



Ionic Compo...

Do **NOT** use the "mono, di, tri" prefixes, ever for ionic compounds!

Does the met...

Group I is always 1+;
group 2 is always 2+;
Aluminum is always 3+
and Silver is always 1+

The name of the meta...

Write name of the cation followed by name of the anion. Change the ending of the nonmetal to "ide."
So, NaCl is sodium chloride. MgCl₂ is magnesium chloride.
For polyatomic ions, write the name of the metal followed by the name of the polyatomic ion.
NaNO₃ becomes "sodium nitrate."
Na₂SO₄ is "sodium Sulfate."

The name of the metal does not tell y...

Use roman numerals in parentheses following the metal to tell me it's charge.
If the cation is Fe²⁺, we say "iron (II)" if the cation is Fe³⁺, then we call it "iron (III)." Then you write the name of the anion with "ide" as the ending, just as for type 1. You handle polyatomic ions the same way.
So, FeCl₂ is iron (II) chloride. FeCl₃ is iron (III) chloride. how do you know the charge? Well, in this case, the Cl tells you, since it can only be 1-. I either have to give you an anion that has only one possible charge, or tell you the charge.
It's not as hard as it seems

Use prefixes f...

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

Change the endin...

For example: water, H₂O, would be "dihydrogen monoxide" If there is only one of the first element, such as CO₂, we just say "carbon dioxide," not "monocarbondioxide."