

IUPAC Nomenclature or Name That Compound (cpd)

Question 1

- Is the compound **Ionic** or **Covalent**?

Ionic _____ to _____

Covalent _____ to _____

Therefore **you must identify** the _____.

e.g. MgCl₂ _____

N₂O₄ _____

H₂SO₄ _____

AuPO₄ _____

H₂S _____

SiO₂ _____

Question 2

- Is the compound **Binary**?

Binary Cpd _____

Ending _____

Binary Covalent AKA Molecular Cpd then say "Thank you Chemistry Gods!!"

- Non-metal to non-metal
- **Prefices!!!!**
- Memorize them!

Mono/Di/Tri/Tetra/Penta/Hexa/Hepta/Octa/Nona/Deca

First Element _____

Second Element _____

e.g.

Metals lose electrons to become positive ions--CATIONS!

e.g. Na atom

Non-metals gain or share electrons to become negative ions--ANIONS!

e.g. Cl atom

Group I, II or III Ionic Cpd or "Normal" Ionic Cpd

- Metal to non-metal
- Put **charges** in place
- Obtain charges from the Periodic Table

First Element

Second Element

e.g.

English sentence as to what just happened!! _____

Binary Transitional Metal Cpd = Ionic!! All about the charges!!

- Identify the **charge** on the non-metal first.
- Figure out how many electrons the metal would have to lose to satisfy the non-metal's needs!!!!

First Element _____

Then!! _____

Second Element _____

e.g.

Question 3

- Is it a **ternary** cpd?

Ternary Cpd _____

Ending _____ for now!

For now--Ternary cpds are ionic so they are named exactly like "normal" ionic cpds and transitional metal ionic cpds.

e.g.

Other Stuff

Hydrogen (the Freak) Cpd's are covalent but are named as if Gr 1A ionic!!

e.g.

Metalloid Cpd's are named as if the first element were a non-metal.

e.g.