

SCIENCE SCHOLARS ACADEMY

CELL BIOLOGY

CHEMICALS OF LIFE

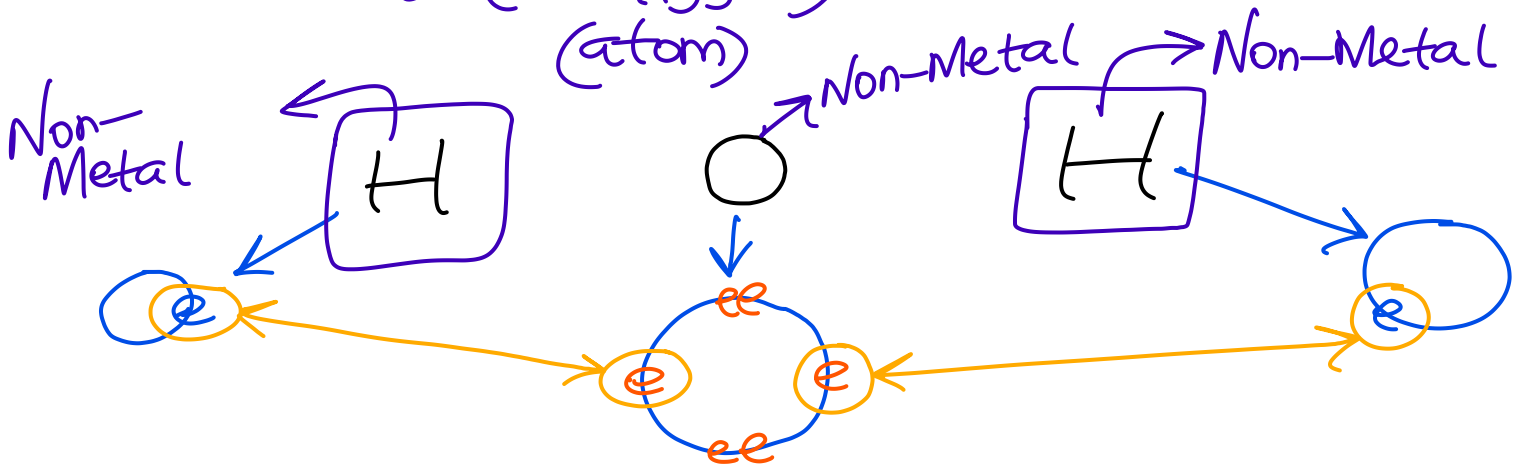
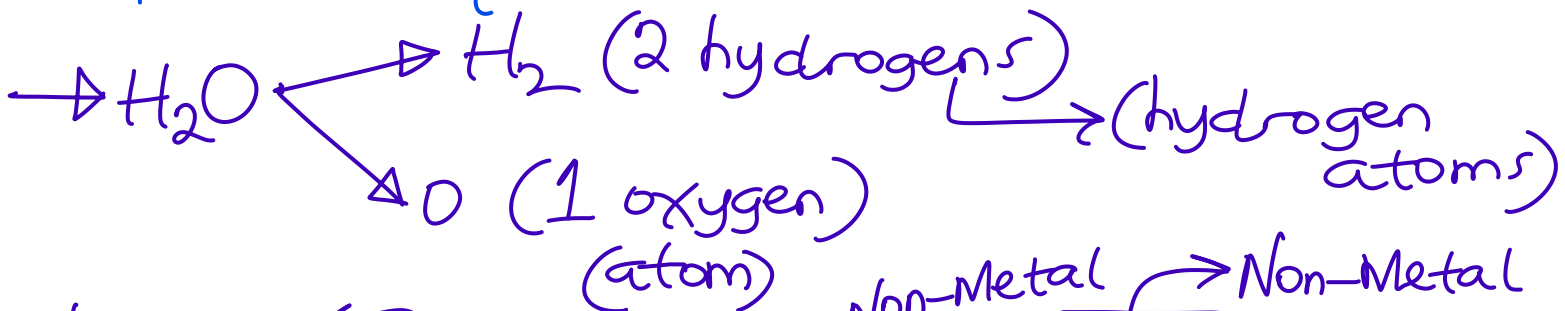
{Lesson 1}

Lesson target:

→ Water {Dust} ✓

→ Research ✓

→ Next-stop ✓



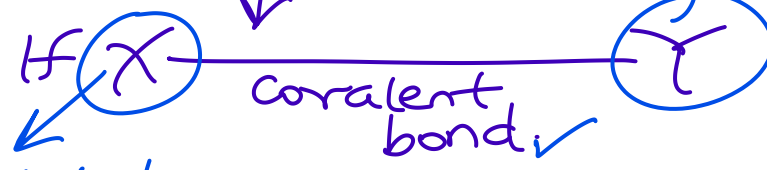
↓
PTO

⊕ Ionic ⊖ X → **covalent** → valency electrons
 sharing → Equality → outermost: Non-Metal

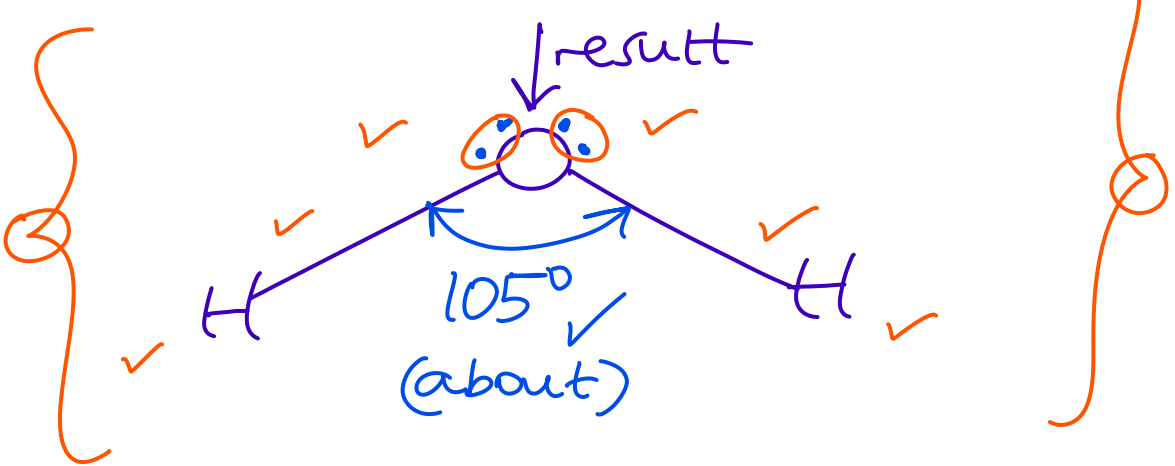
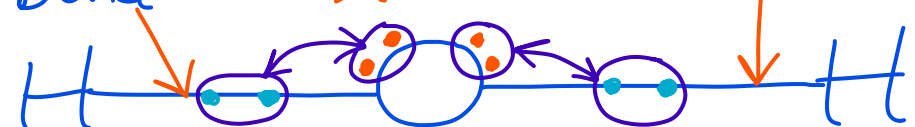
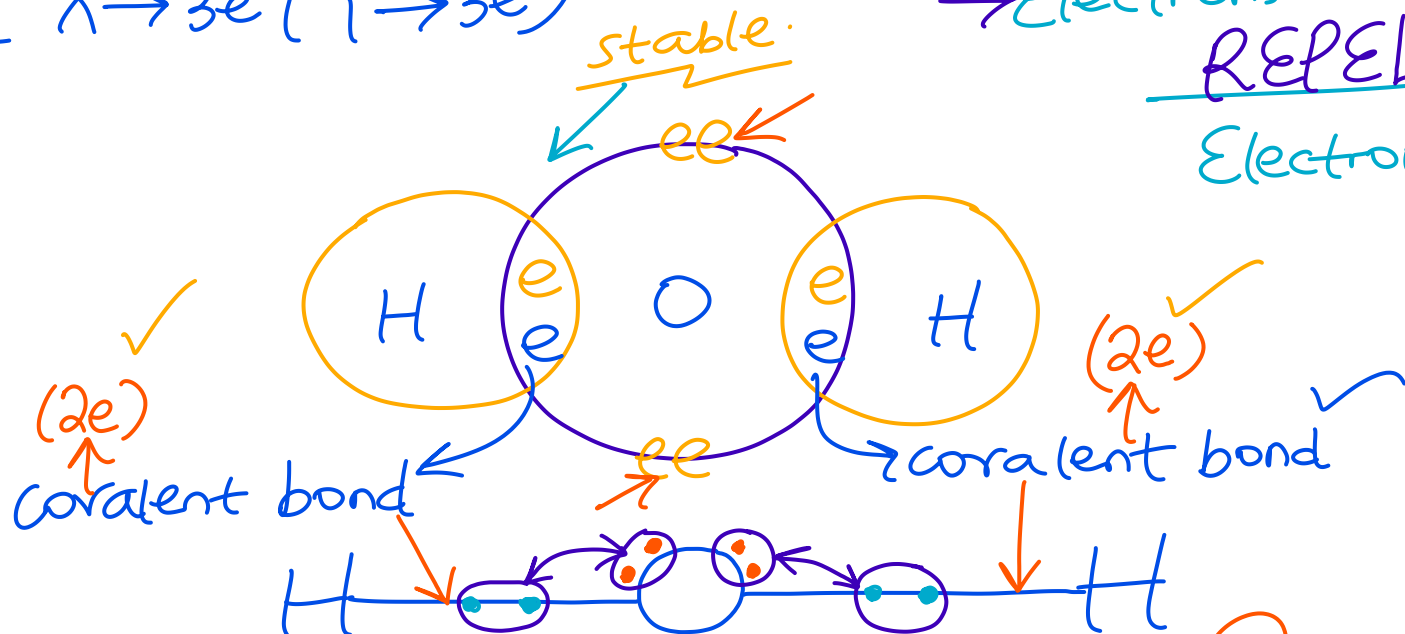
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If X brings 1e,
 even Y " 1e
 X → 2e (Y → 2e)
 X → 3e (Y → 3e)

Non-Metal



Electrons
REPEL
 Electrons.



→ Electronegativity



are people
 X and Y are sharing food
 X is more greedy → will eat more food → satisfied
 Y is less greedy → less food → hungry.

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Greed = Electronegativity \checkmark tendency.

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Now \rightarrow food \rightarrow electrons \checkmark

X and Y are sharing electrons.

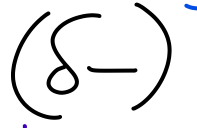
X is more greedy (electronegative)

Y is less greedy (electronegative)

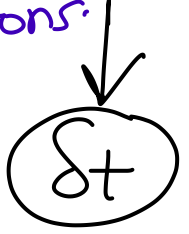
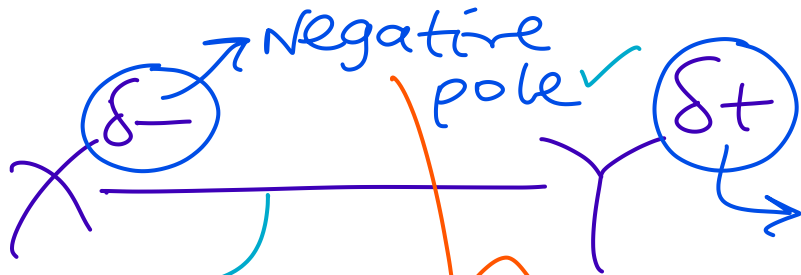
X tends to take the electrons more towards itself

X gets a partial negative charge

Y tends to lose the electrons.



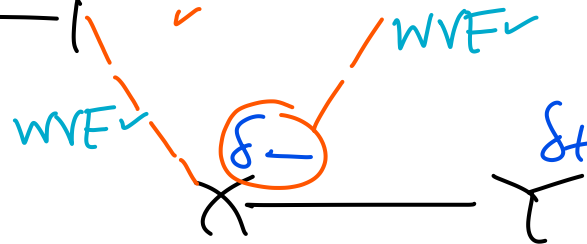
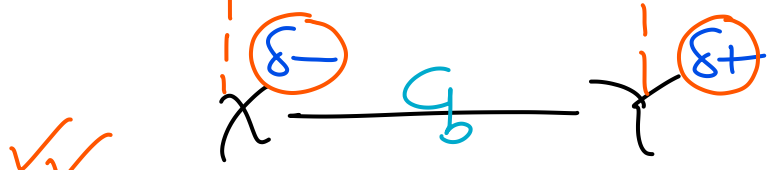
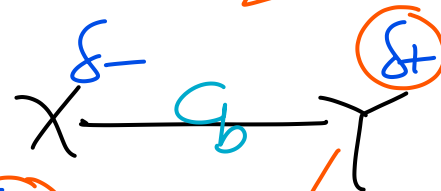
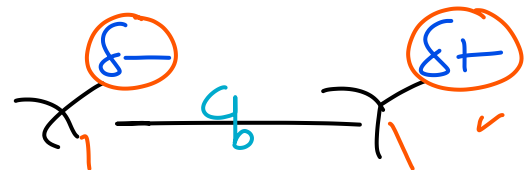
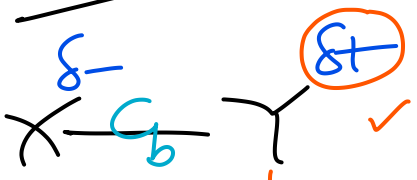
Hence;



Polar bond \checkmark

Existence of the 2 \rightarrow POLARITY.

So many XY molecules

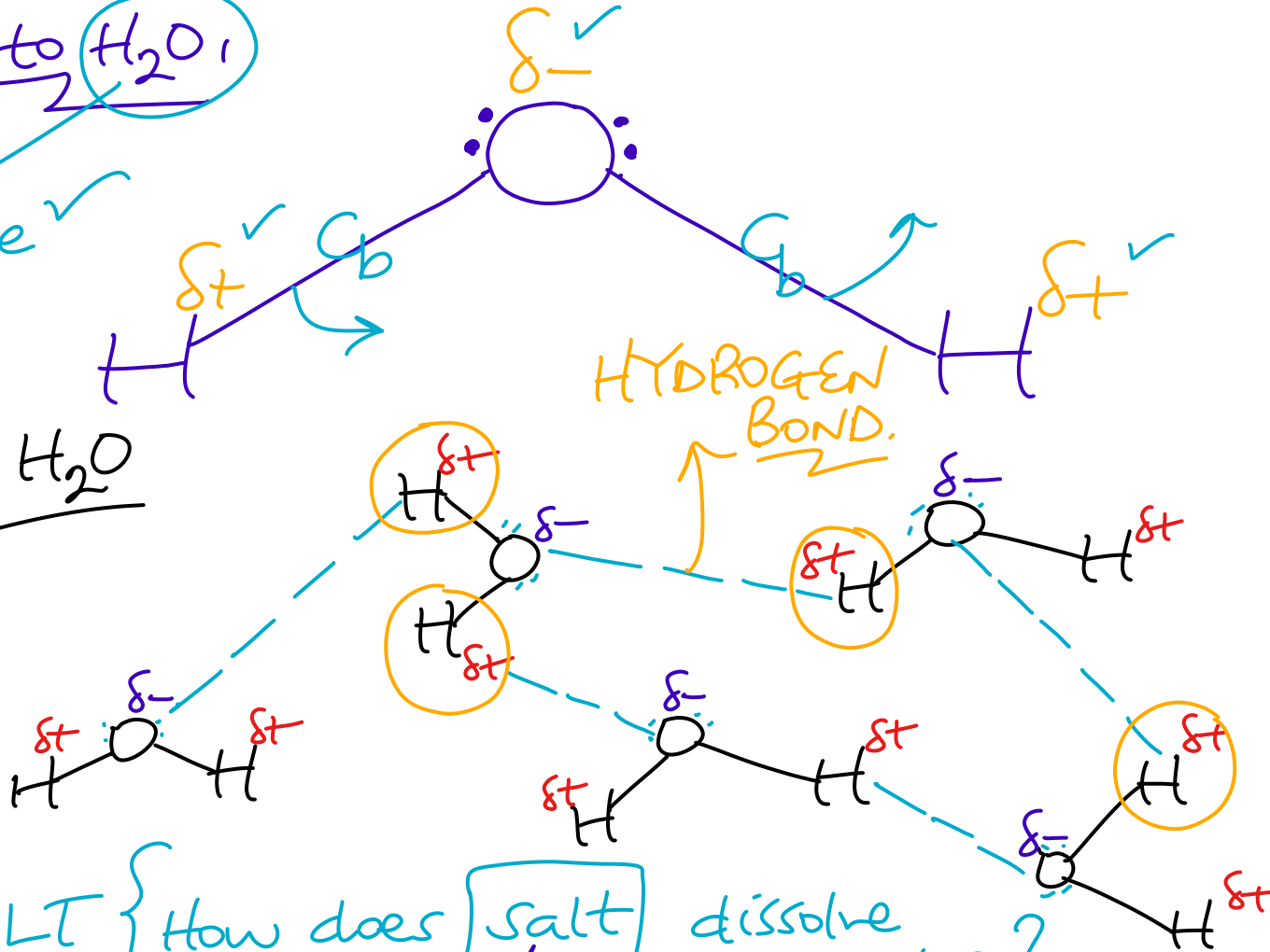


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Relate to H_2O

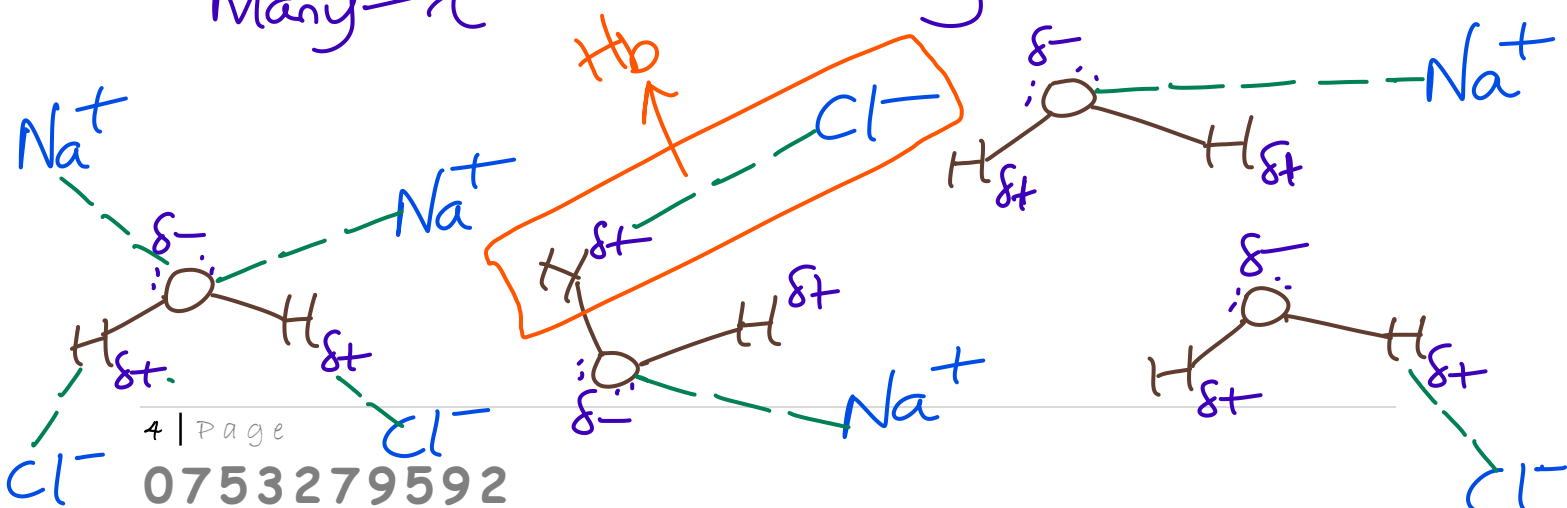
di-pole

Many H_2O



→ SALT { How does salt dissolve in H_2O }

Many $NaCl$ cpds



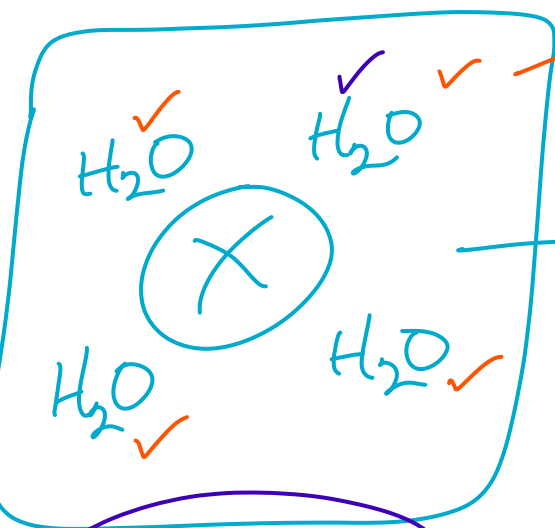
$\delta+$, $\delta-$ SCIENCE SCHOLARS ACADEMY $\delta+$, $\delta-$

Cheat code:

POLAR ✓ dissolves ✓

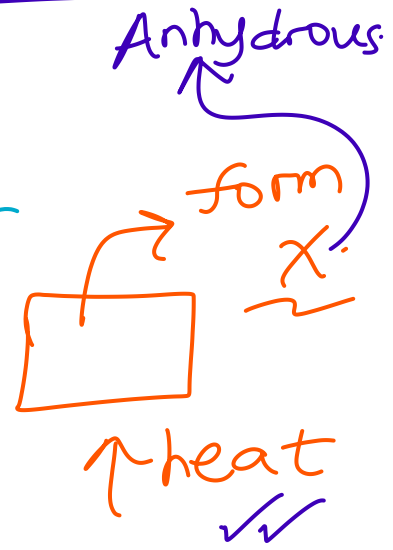
POLAR ✓

Non-POLAR ✓ dissolves ✓ Non-POLAR ✓



Surrounded ✓

X is hydrated ✓



Assignment: ✓

→ Read Today's content & take notes/summaries

→ Read again ✓

→ define ✓

Next stop:

Research:

→ MacroMolecules → Examples ✓

→ define & types ✓

→ Constituents ✓

→ formation of TG

→ Properties of Lipids & relate to function ✓

sterols
waxes

Lipoproteins
glycolipids
Phospholipids

→ Miscellaneous functions.

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Imreg ✓
Paul Tutor

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