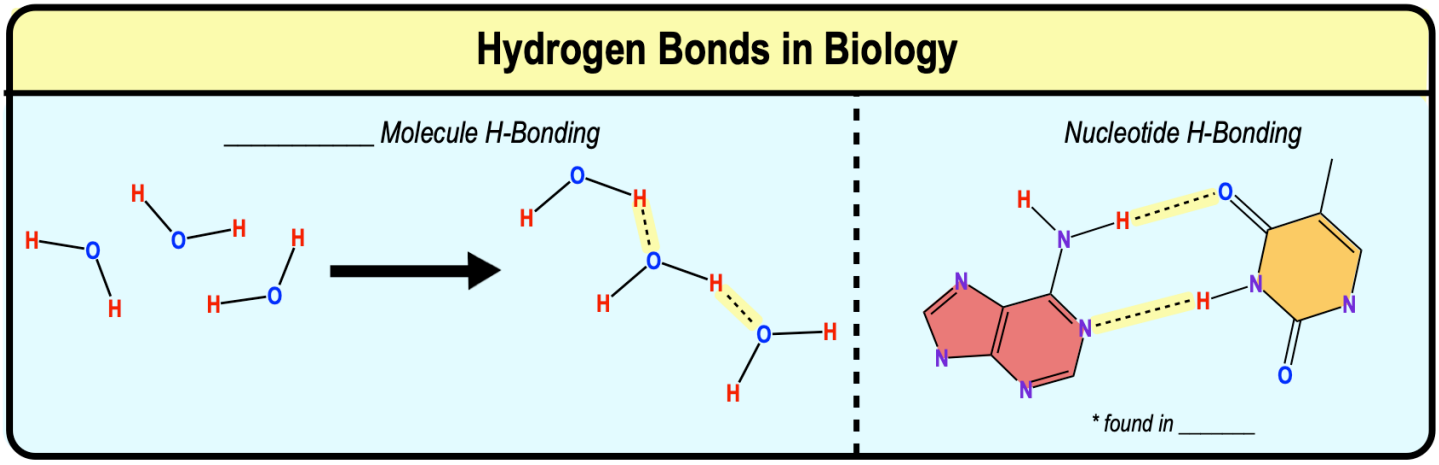
CONCEPT: HYDROGEN BONDING

●*Hydrogen bond (H-bond)*: interaction between a highly *electronegative* atom (F, O or N) and a _____ atom.

- □ Individually, H-bonds are weak, but *collectively*, they can be quite _____.
- □ Important in several areas of biology, including the properties of _____ & the structure of macromolecules.



PRACTICE: What property of the bond between a Hydrogen (H) atom and an Oxygen (O) atom in a molecule of water makes it a polar bond?

a) O and H are equally electronegative.
b) O is more electronegative than H.
c) H is more electronegative than O.
d) Water molecules form ionic bonds with one another.
e) Hydrogen bonds form between H and O.

PRACTICE: Which of the following images below is the most likely way that two water molecules would interact?

a) A
b) B
c) C
d) D