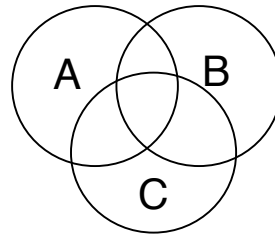


VENN DIAGRAM: COMPARING MOLECULES/BONDS



A only:

atoms have slight charges
water is an example
sugars are an example
electrons are shared unequally

B only:

hydrophobic
atoms have no charges
oils are an example

forms a separate layer when mixed with water
electrons are shared equally

common to A, B and C:

composed of active atoms
molecule as a whole is neutral
bonds satisfy the Rule of the Octet
kind of molecule

common to A and B only:

have covalent bonds
electrons are shared between atoms

C only:

result from transfer of electrons
atoms have “full” charges
held together by attraction of opposite charges
salts are an example

atoms dissociate when mixed with water

common to B and C only:

common to A and C only:

hydrophilic
atoms are charged
forms aqueous solutions