

Biomolecules (Macromolecule)

↳ Big or Large

• All Biomolecules are organic - They contain Carbon.

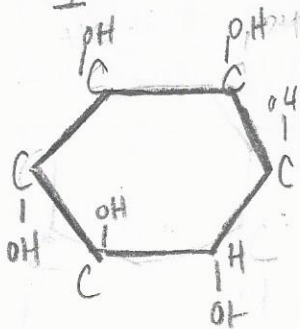
All contain Carbon, Hydrogen, oxygen (CHO)

• Monomers come together to make a polymer, polymers come together to make Macromolecules.

Carbohydrates - 3 Types → Monosacchride (Glucose), Disacchride (Sucrose), Polysacchride (glycogen)

Looks Like a stop sign

Main source of energy



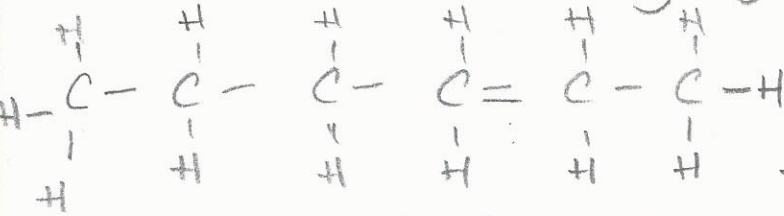
short term energy - Monosacchrides (candy)

Medium energy - Disacchride (fruits)

Long term energy - polysacchride (Bread, pasta)

Lipids → Fats → Monomer of Lipid → Fatty Acid

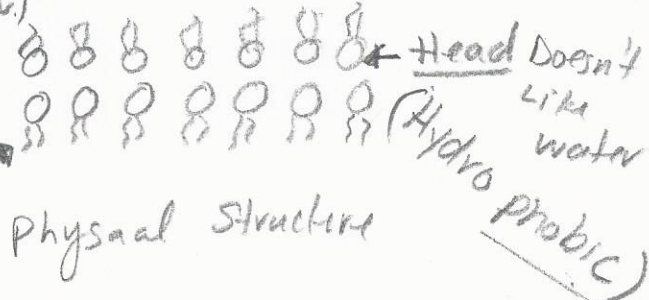
Looks Like a chain (Repeating segments)



Chemical structure

Do like water

Phospholipid Bi-Layer



Head Doesn't like water
Tails (Hydrophobic)

Physical structure

• Stored energy. - 2 Types → Saturated → Solids (Single Bond) Butter, Lard

Unsaturated → Liquid (Double Bond) oils

Protein → monomer → Amino Acids

↑
Macromolecule/polymer

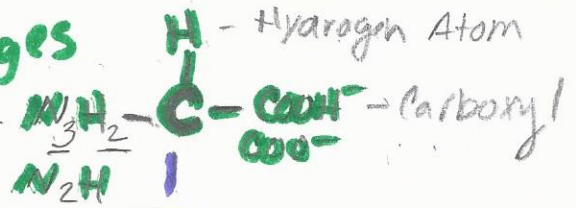
Building Blocks of protein

Most important Macromolecule making up 90% of Body/functions.

4 Types of Protein Structures: Primary (most simple), Secondary, Tertiary, Quaternary (most complex)

• Never changes

Amino group



R Variable group

Change into Any Biomolecule