

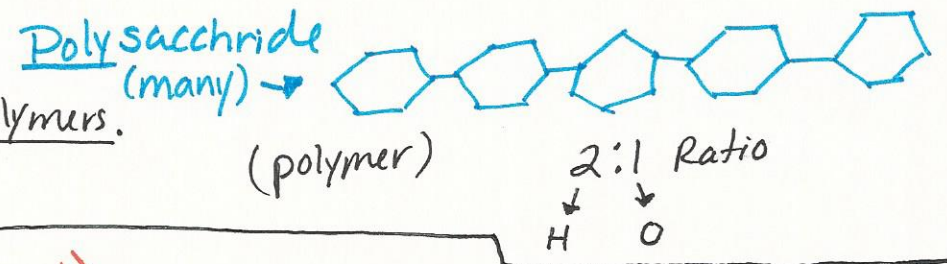
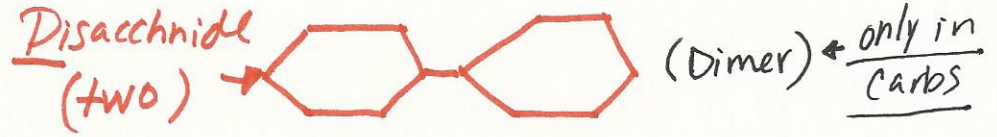
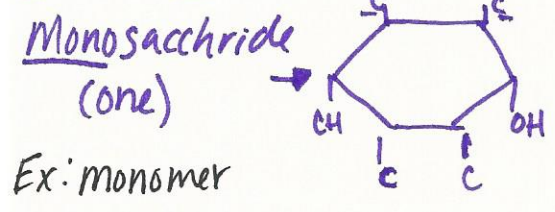
Building Blocks of Life ← Biomolecules → Are Organic → All contain Carbon

C, H, O

4 Types: Carbohydrates, Lipids, Proteins, Nucleic Acids ← Macromolecule (polymer)

① Carbohydrates → Main energy source → (Bread, pasta, potatoes) → Looks Like a Stop sign.

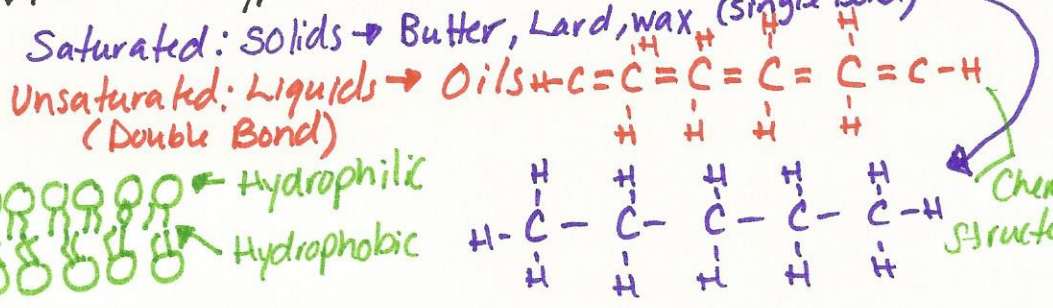
3 types of carbs → Monosacchride, Disacchride, Polysacchride



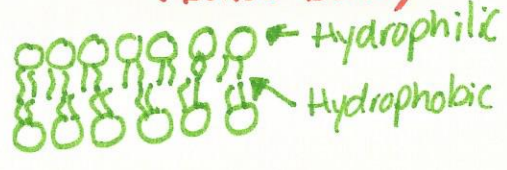
Monomers come together to make polymers.

② Lipids → Stored energy → Fat → 2 types: Saturated, Unsaturated (cholesterol)

Monomer of Lipid: Fatty acid
Looks like a chain!



physical structure:
(phospholipid Bi-layer)



Monomer of Carbohydrate: Monosacchride polymer of Carbohydrate: Polysacchride

Monomer of Lipid: Fatty Acid Polymer of Lipid: Lipid

Monomer of Nucleic Acid: Nucleotide Polymer of Nucleic Acid: Nucleic Acid

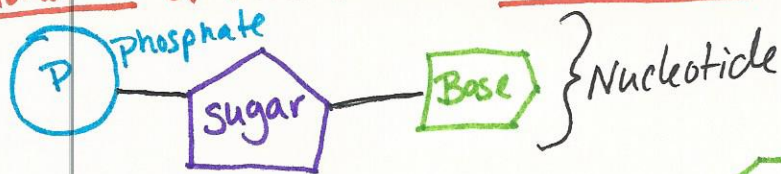
Monomer of Protein: Amino Acid Polymer of Protein: Protein

Building blocks of Life ← Biomolecules → Contain Carbon → Organic
 (Macromolecule) (polymer) → All have C, H, O

4 Types: Carbohydrates, Lipids, Nucleic Acids, Proteins

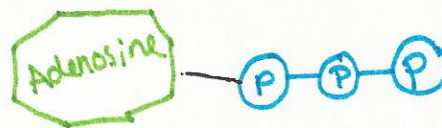
③ ^(polymer) **Nucleic Acids** → Transmit + store Genetic information → DNA + RNA + Energy (ATP)

Monomer of Nucleic Acid: Nucleotide → 3 structures: Sugar, phosphate, base



2 Types of sugars: Ribose/Deoxyribose
 (RNA) (DNA)

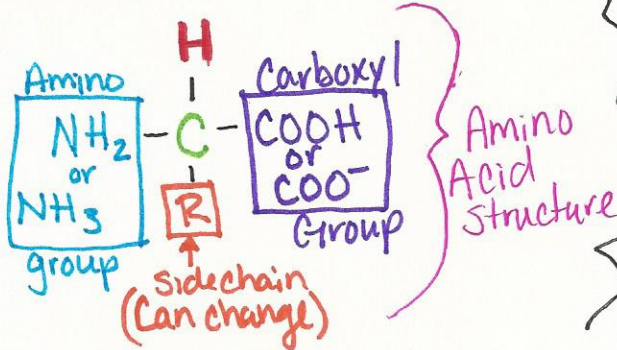
ATP → Adenosine + tri-phosphate
 (Base) 3



4-Types of Bases
 Adenosine Cytosine
 Guanine Thymine

④ **Proteins** → makes up 90% of our structure + function of OUR Bodies. → Repair (muscles + Tissues)

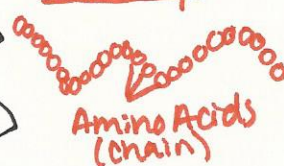
Monomer of protein: Amino Acid



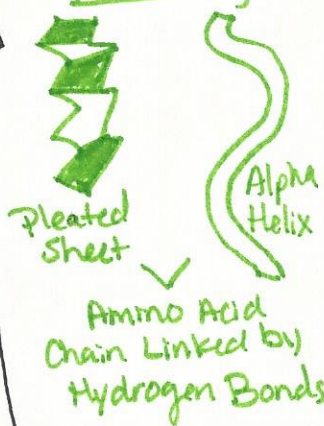
polymer of protein: Protein

4 structures of Protein:

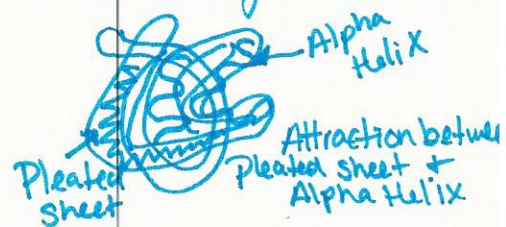
Primary



Secondary



Tertiary



Quaternary

