

Rates and Equilibrium

Organic Chemistry

Chemical Analysis

Chemistry of the Atmosphere

Using Resources

Synthetic Polymer

Hydrocarbons and Crude Oil

Alkanes

Fractional Distillation

Properties of Hydrocarbons

Cracking

Alkenes

Reaction of Alkenes

Alcohols

Carboxylic Acid

Addition Polymerization

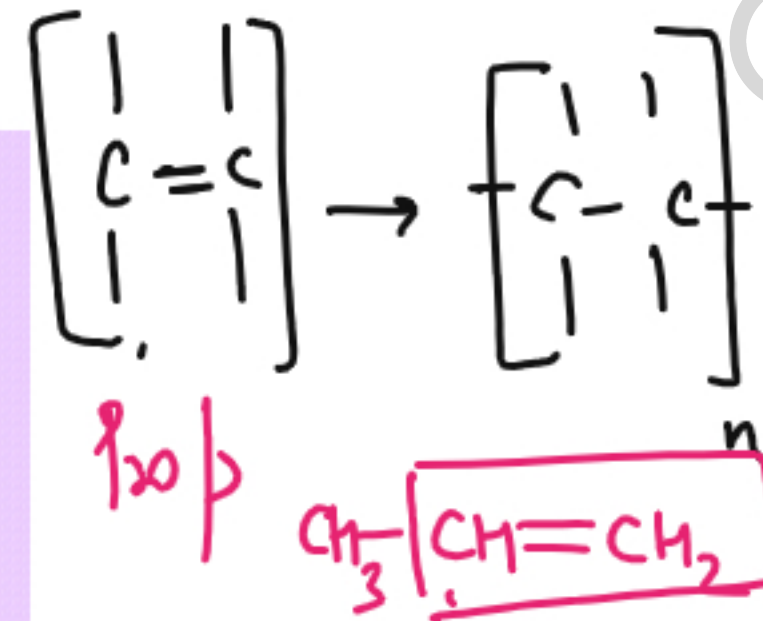
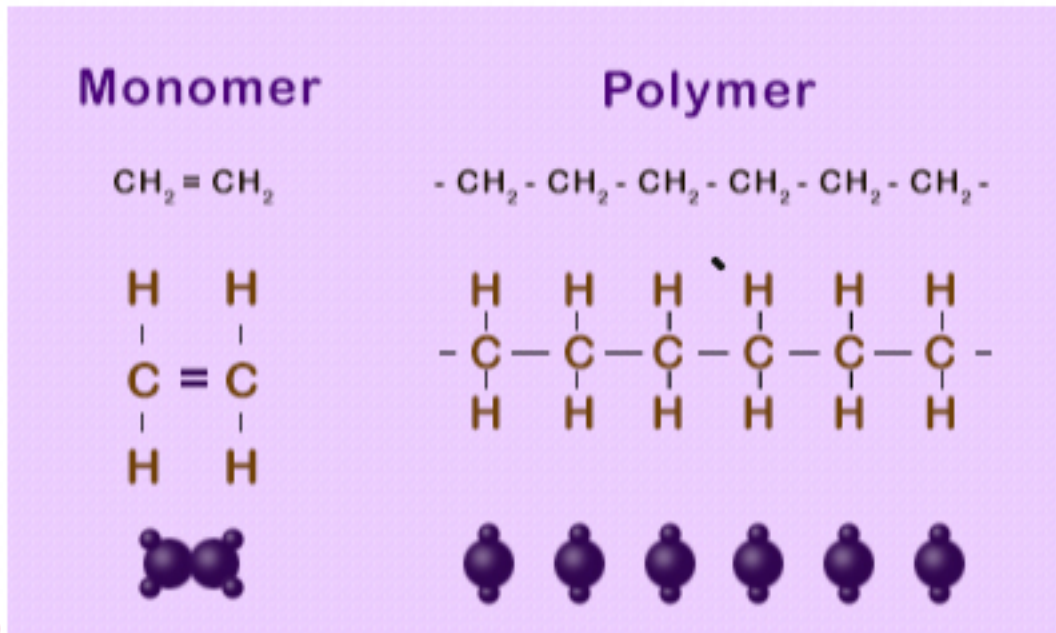
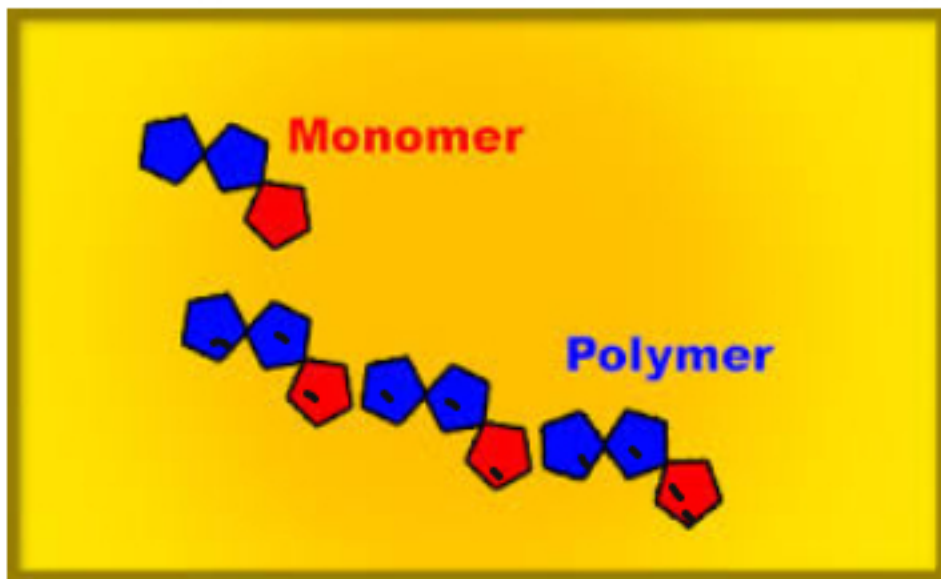
Condensation Polymerization

Amino Acids

DNA



ADDITION POLYMERIZATION

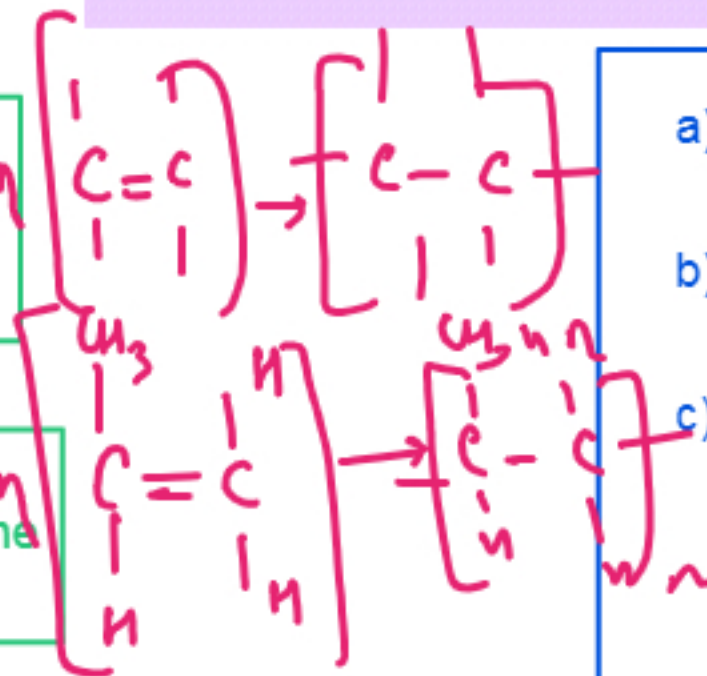


ADDITION POLYMERS

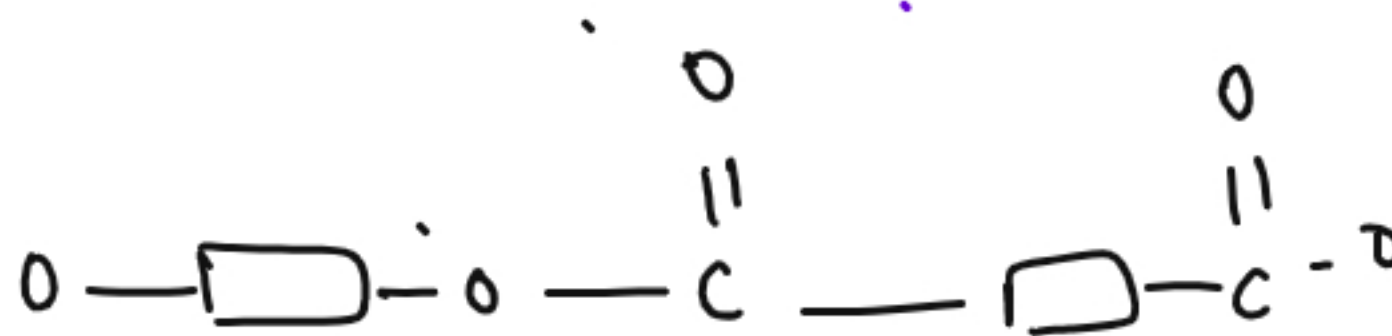
The individual unit that polymerizes to form a polymer is known as a monomer. Eg Ethene

The structure formed by the polymerization of the monomer is a polymer. eg Polyethene

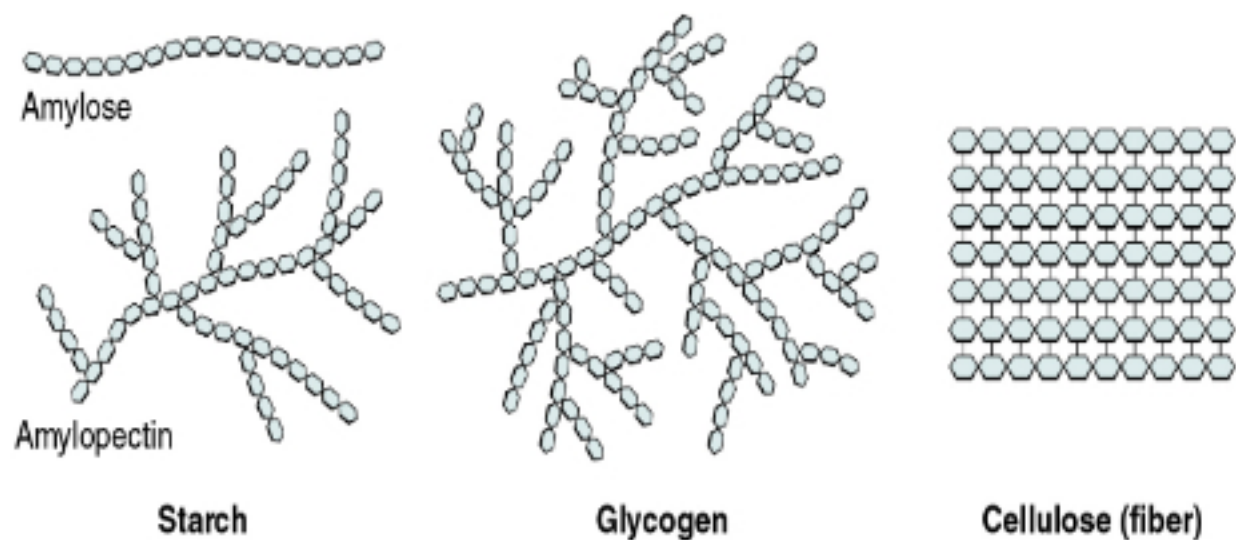
- a) Formed by addition reaction.
- b) Require only one monomer generally an alkene
- c) Nothing is lost in the reaction.  
eg Polyethene, polypropene



- a) Requires two monomers
- b) Requires two functional group
- c) Formed by condensation reaction.
- d) A small molecule of water is lot
- e) Example : Nylon a polyester



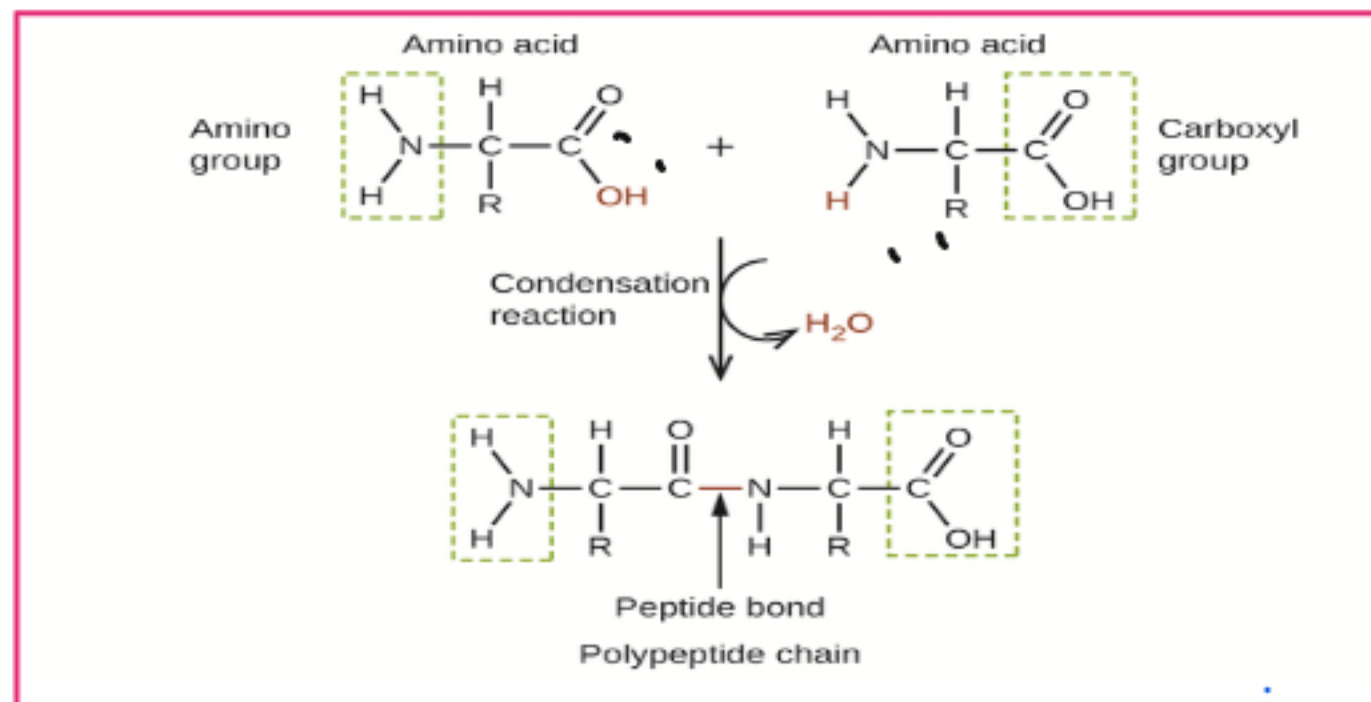
Polyester



a) They are found naturally

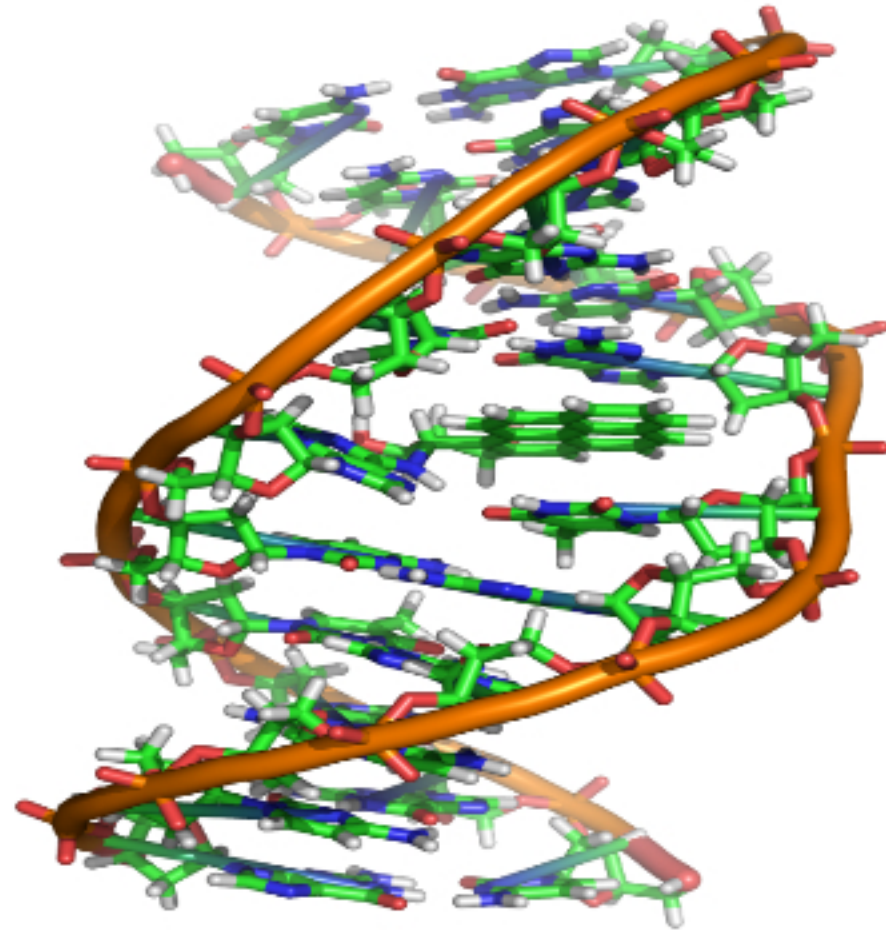
b) All the complex biomolecules are polymers

| Monomer    | Polymer    |
|------------|------------|
| Glucose    | Starch     |
| Proteins   | Amino Acid |
| Nucleotide | DNA        |



www.expertguidance.co.uk  
mahima.laroyia@expertguidance.co.uk  
+447448352272



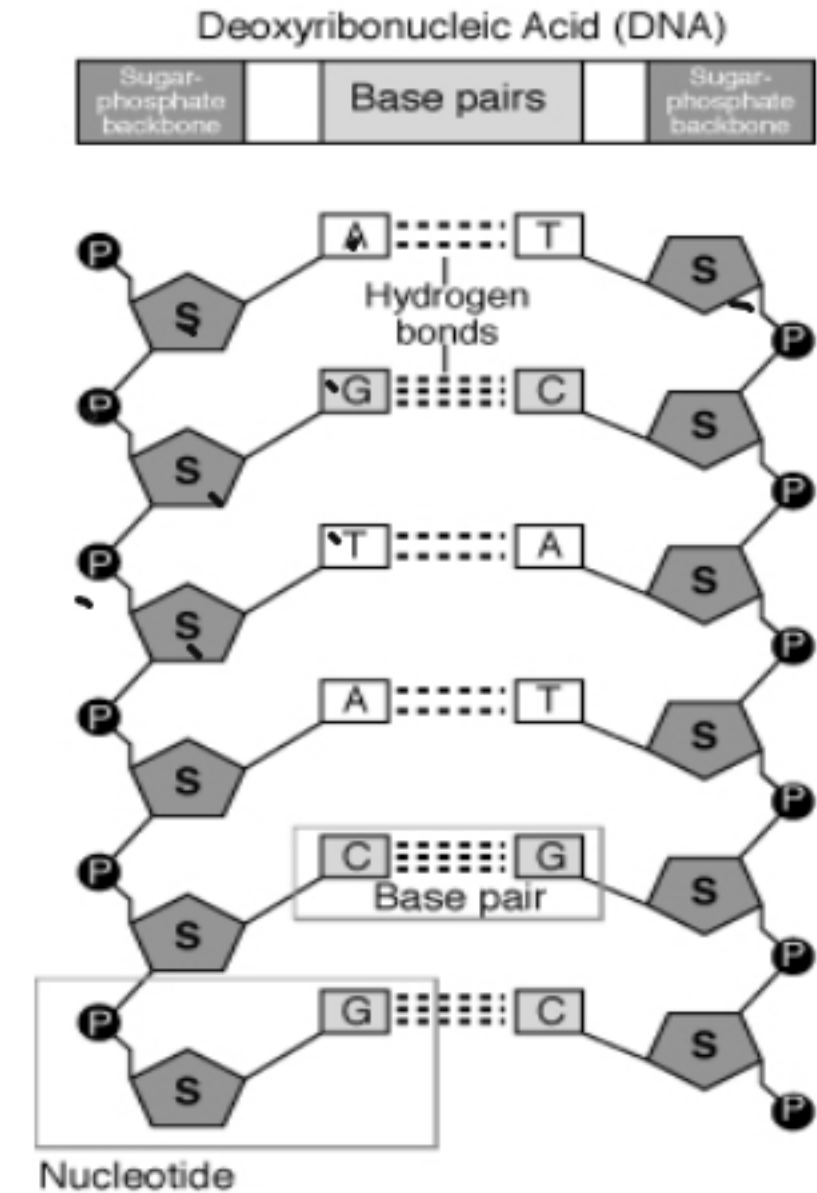


a) DNA is polynucleotide

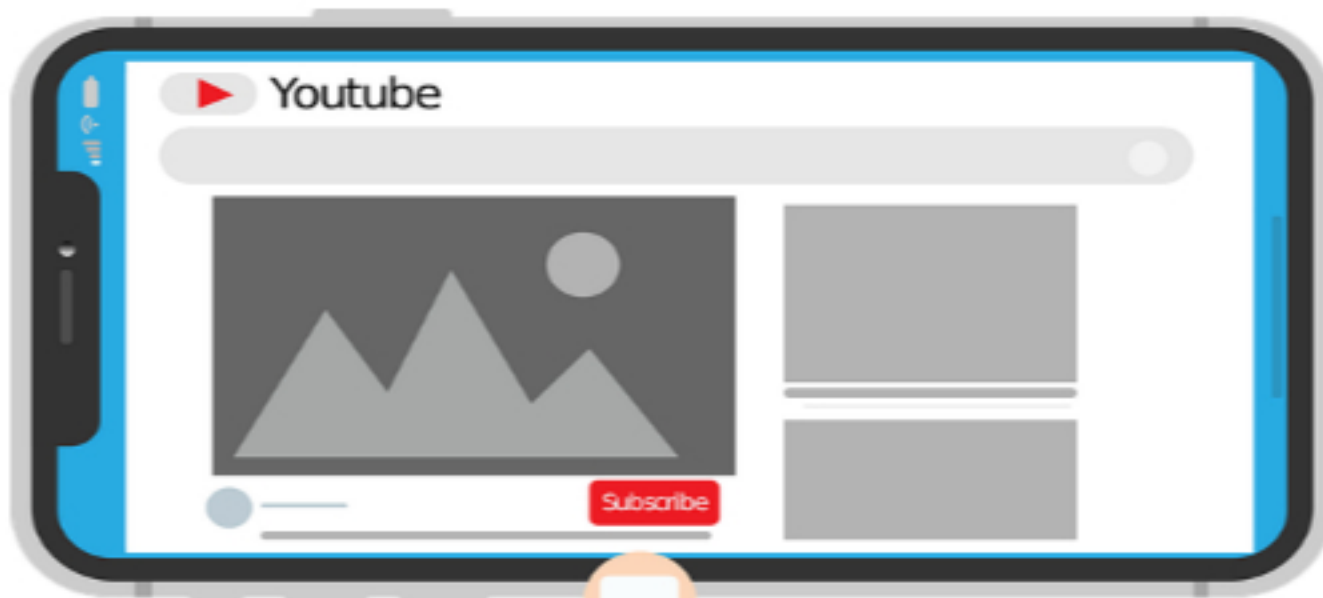
b) Nucleotide =  
Phosphate + Sugar + Nitrogenous Bases

c) There are four bases present in the DNA  
Adenine  
Thymine  
Guanine  
Cytosine

www.expertguidance.co.uk  
mahima.laroyia@expertguidance.co.uk  
+447448352272



NEXT STEP



CHECK SPECIFICATION



EXAM QUESTIONS ON THIS TOPIC

[www.expertguidance.co.uk](http://www.expertguidance.co.uk)  
[mahima.laroyia@expertguidance.co.uk](mailto:mahima.laroyia@expertguidance.co.uk)  
+447448352272