

Biology Notes y12

DNA – [Source \(ppt 1\)](#)

Prokaryotic Cells - DNA found as a singular circular chromosome

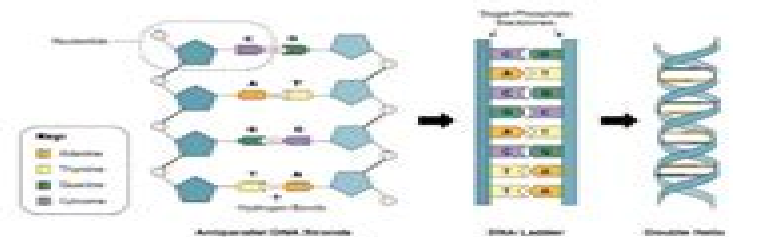
- DNA is unbound
- Found in nucleoid region of cytosol

Eukaryotic Cells - DNA found as linear chromosomes in membrane bound nucleus

- DNA occurs bound to proteins in chromosomes in the nucleus, which is enclosed in a nuclear membrane.
- DNA is also found in the mitochondria and chloroplasts of the cells.

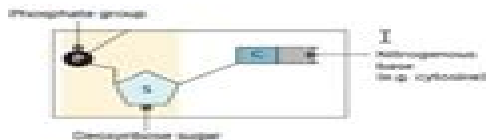


DNA Structure



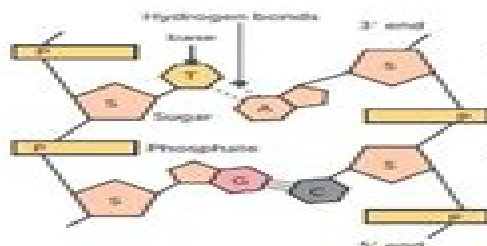
Complementary base pairs

- Four types of nitrogenous bases
 - Adenine pairs with Thymine by two hydrogen bonds
 - Cytosine pairs with Guanine by three hydrogen bonds



Nucleotides

- DNA is a nucleic acid made up of nucleotides, each nucleotide is:
 - Five carbon sugar (deoxyribose sugar)
 - A phosphate group
 - A nitrogenous base
- Each phosphate is attached to two sugar molecules
- Carbons within a ring are numbered 1' to 5', one bond is with 3' of one carbon ring and the 5' carbon of the next sugar ring



DNA Molecule

- Shape of DNA is double helix - two strands
- Strands joined by weak hydrogen bonds between nitrogenous bases

Summary

- Sugar phosphate backbone
- Double stranded molecule
- Twisted helix shape due to hydrogen bonds
- Nitrogenous bases joined by weak H bonding
- A-T joined by 2H, C-G joined by 3H
- Bonds break easily, allowing separation
- Genetic code determined by order of base pairs

DNA in Prokaryotes

- No nucleus, DNA in region called nucleoid and may be joined to cell membrane
- Have singular large strand of double helix

Southgate Schools Biology 12 Tests

Michael Hoelscher

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name Michael Hoelscher.

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