

DNA and RNA Overview

DNA and RNA are both **Nucleic Acids**

DNA stores genetic information

RNA transfers genetic information

DNA and RNA are polymers of Nucleotides

Nucleotides

Pentose sugar (5 Carbon Atoms)

Nitrogen Containing Base

Phosphate Group

Four Possible Bases of DNA

A-	T-	C-	G-
Adenine	Thymine	Cytosine	Guanine

Four Bases of RNA

A-	C-	G-	U-
Adenine	Cytosine	Guanine	Uracil

Base Pairing

T A

C G

This is **Complementary Bases**

A-T has 2 Hydrogen Bonds

C-G has 3 Hydrogen Bonds

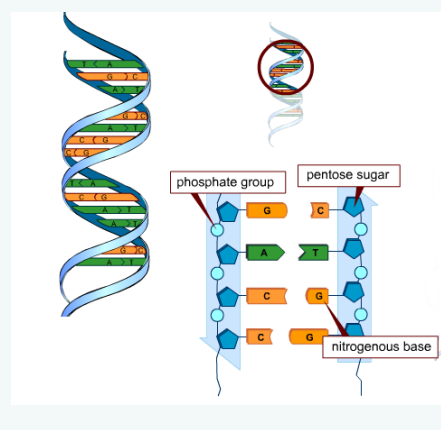
Polynucleotides

Polymer of Nucleotides

Made via condensation reaction

Phosphodiester Bonds , Phosphate group
and Two Ester Bonds

DNA Image



Proper Names

DNA	RNA
Deoxyribonucleic Acid	Ribonucleic Acid
Deoxyribose sugar	Ribose Sugar

DNA Structure

Two polynucleotide Chains

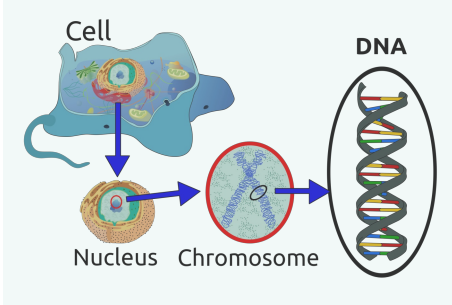
Double Helix Structure

Hydrogen Bonds

Complementary Base Pairing

Sugars and Phosphate make up the
Backbone

DNA Location



C

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