

### 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-Uracil
Adenine	Cytosine	Guanine	

### Base Pairing

T                      A

C                      G

This is **Complementary Bases**

A-T has 2 Hydrogen Bonds

C-G has 3 Hydrogen Bonds

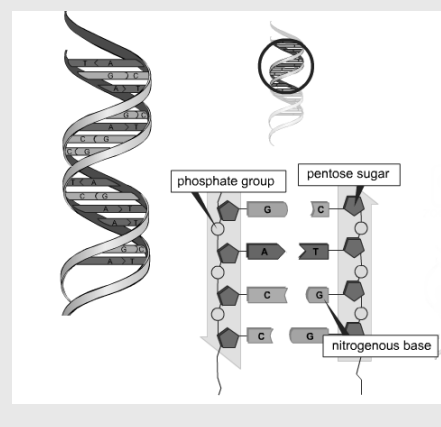
### Polynucleotides

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

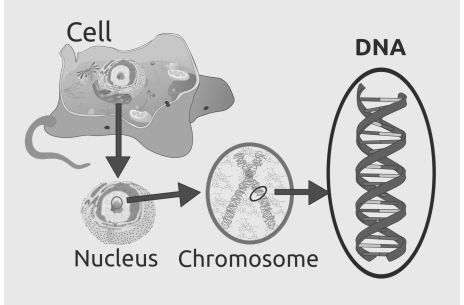
Double Helix Structure

Hydrogen Bonds

Complementary Base Pairing

Sugars and Phosphate make up the Backbone

### DNA Location



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