# Cheatography

# DNA Replication Cheat Sheet by loboguy via cheatography.com/27609/cs/8086/

Polynucleotides				
Nucleotide is made up of				
Pentose sugar (5	Nitrogen	А		
Carbon Atoms)	Containing	phosphate		
	Base	Group		

# **Cell Division**

During Cell division DNA must make a identical copy, otherwise progeny cells will be different from parent cell.

Complementary Base Pairs				
A-	Т-	C-	G-	
Adenine	Thymine	Cytosine	Guanine	
T-A				
C-G				
This is Deep Deiving				

This is Base Pairing

#### Semi Conservative Replication

DNA copies itself before cell division

Each new cell has full amount of DNA

Semi conservative replication due to half of the strands in new DNA molecule are from the original

1 New Strand

# Daughter Helix

1 Parental Strand

1 Unchanged from Original

# Chromatids and DNA



#### Semi Conservative Replication Stages

#### Steps of DNA replication

1) Hydrogen Bonds are broken betwen polynucleotides DNA strands

2)Double Helix unwinds to make two single strands

3)Original Strand acts as a template for a new strands

3) Complementary Base pairing attracts new bases to its corresponding pairs

4)Condensation Reactions join nucleotides together

5) Catalysed by enzyme DNA polymerase

6) New hydrogen bonds form

7) New strand contains one strand from original DNA molecule and 1 new strand

### **Chromosomes + DNA Replication**

Chromosomes are found in the nucleus

During Cell Division chromosomes duplicate

DNA Replication linked to Chromosome

replication linked to Mitosis

DNA Replicated During Interphase

Chromosomes are composed of DNA

#### **DNA replication image**



Replication Image 2



# Chromatids and DNA 2



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