

Name \_\_\_\_\_

# DNA - The Stuff of Life

Deoxyribonucleic Acid ( \_\_\_\_\_ )  
The \_\_\_\_\_ molecule  
\_\_\_\_\_ the \_\_\_\_\_ of  
the cell.



## Structure

\_\_\_\_\_ & \_\_\_\_\_ proposed the structure in 1952

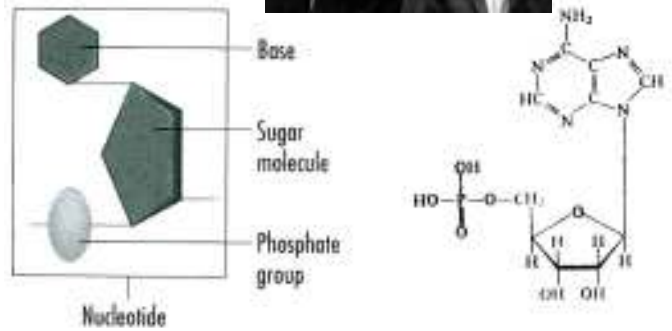


## Nucleotide

The \_\_\_\_\_ block of the  
DNA ladder

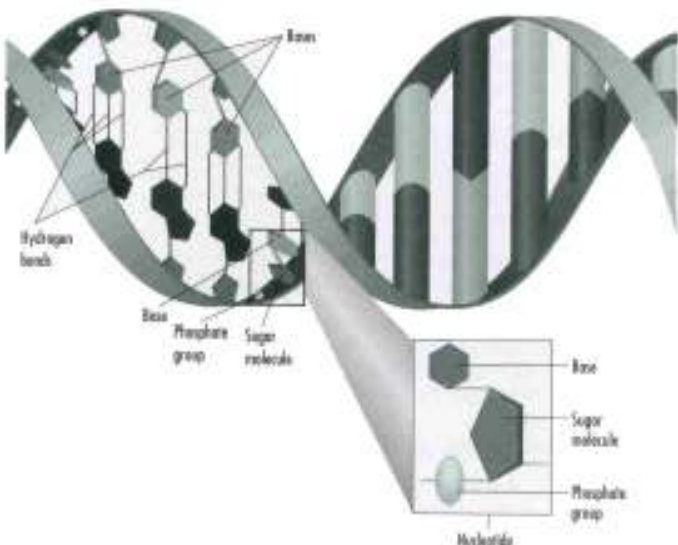
Composed of:

1. \_\_\_\_\_
2. deoxyribose \_\_\_\_\_
3. nitrogenous \_\_\_\_\_



Four Kinds of Nitrogenous bases		
Purines		Pyrimidines
	-----	
_____	-----	_____
	-----	
	-----	
	-----	
	-----	
	_____ bonds	

\_\_\_\_\_ always pairs with \_\_\_\_\_  
\_\_\_\_\_ always pairs with \_\_\_\_\_



## Keywords of the DNA Shape

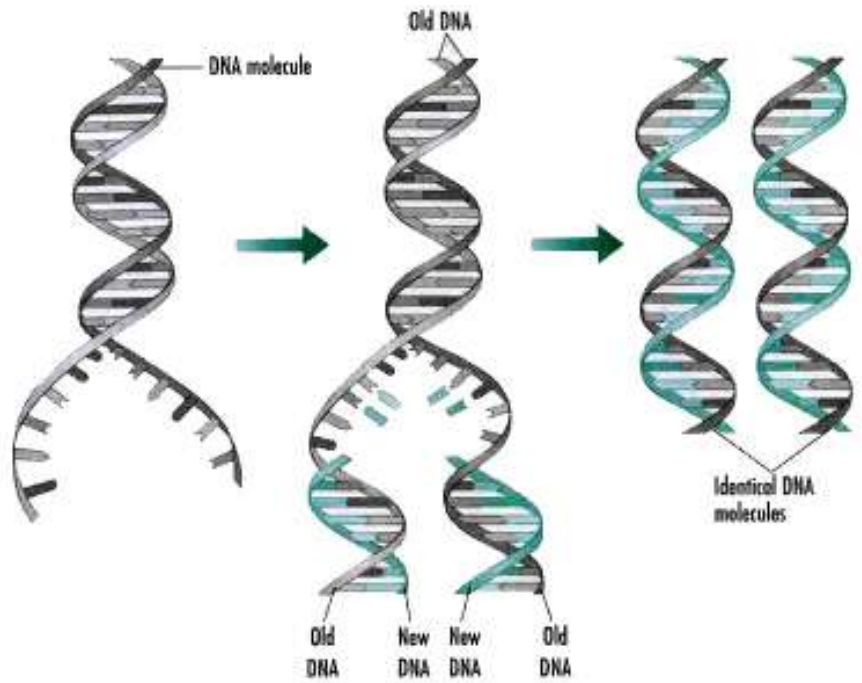
\_\_\_\_\_ stranded  
\_\_\_\_\_ shape  
sides of \_\_\_\_\_  
\_\_\_\_\_ of bases  
\_\_\_\_\_ (double helix)



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## Replication of DNA

Making an \_\_\_\_\_  
 \_\_\_\_\_ of a DNA  
 molecule ( \_\_\_\_\_  
 doubling)



## Protein Synthesis

The process of \_\_\_\_\_ proteins

Transcription The process of \_\_\_\_\_ the DNA pattern into messenger RNA

Messenger RNA \_\_\_\_\_ coded information from DNA to the

Ribosomes The \_\_\_\_\_ of the cell

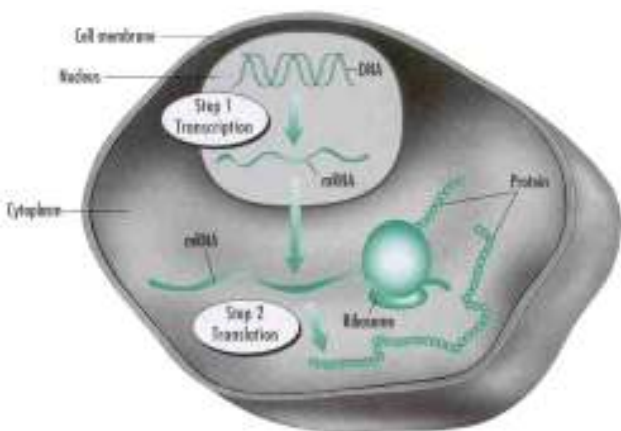
Translation The process of \_\_\_\_\_ the information of messenger RNA into proteins

Transfer RNA The RNA that \_\_\_\_\_ the amino acids to the ribosomes and \_\_\_\_\_ with mRNA

Codon Combination of \_\_\_\_\_ bases of \_\_\_\_\_ that determines the order of amino acids

RNA Differences:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_



## Control of the cell

\_\_\_\_\_ → MAKES → \_\_\_\_\_  
 → TRANSLATION → \_\_\_\_\_ →  
 PRODUCES → \_\_\_\_\_

