

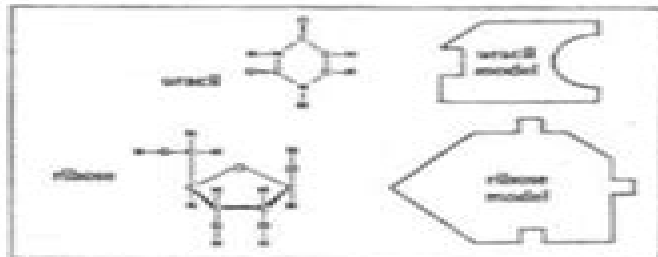
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Protein Synthesis Paper Lab

Part A: RNA Structure

Besides ensuring the exact replication of chromosomes, the order of the bases is a genetic code of instructions for the cell. How does the cell "read" the chemical message coded in its DNA?

Part of the answer lies with a second molecule present in cells called **ribonucleic acid (RNA)**. RNA is similar to DNA in that it is made of nucleotides. However, there is no deoxyribose or thymine in RNA. Deoxyribose is replaced by **ribose** in RNA, and thymine is replaced by **uracil**. If you look at their structural formulas and models, you will see that ribose and uracil are similar to the molecules they replace.



1 a. Which base is replaced by uracil in RNA?

2 b. What molecule replaces deoxyribose in RNA?

3. To which base in DNA do the following RNA bases pair?

Guanine _____

Adenine _____

Cytosine _____

Uracil _____

Part B: RNA Transcription

Open (unzip) one of your DNA models between the base pairs and separate the two halves. Using the *left side* of your DNA model as a pattern, match up the proper RNA nucleotides with the DNA nucleotides. You have made a *messenger RNA* molecule.

C
T
G
A
G
C

4. Do the RNA half-rung bases pair exactly as they would if this were DNA replication? _____

Remove the RNA nucleotide series from the DNA pattern. Close the DNA molecule back up with its original right side. DNA molecules "unzip" temporarily during **RNA transcription** and then zip closed again.

mRNA is a single-stranded molecule. Thus, the sequence of RNA nucleotides formed from DNA represents a complete mRNA molecule. After its formation, this mRNA leaves the nucleus and goes to where the ribosomes are. It carries the DNA message of base sequences in the exact same order out of the nucleus and into the cytoplasm. On this table compare DNA and RNA, check all that apply:

Part C: Structure of tRNA

	DNA	mRNA
Deoxyribonucleic Acid		
Ribonucleic Acid		
Contains the sugar deoxyribose		
Contains sugar ribose		
Contains a phosphate group		
Contains adenine		
Contains thymine		
Contains uracil		
Contains guanine		
Contains cytosine		
Monomers are nucleotides		
Double-strand molecule		
Single-strand molecule		
Leaves/moves out of the nucleus		
Contains a chemical code		

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J Elliott



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