

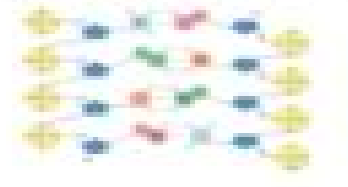
# Study Guide: DNA, RNA, and Protein Synthesis

**1. DNA Structure**

1. What is the structure of DNA?  
 2. What are the components of DNA?  
 3. How are DNA molecules held together?  
 4. What is the role of hydrogen bonds?  
 5. How does DNA replicate?  
 6. What is the difference between prokaryotic and eukaryotic DNA?  
 7. How is DNA packaged in a cell?  
 8. What is the function of DNA?  
 9. How is DNA inherited?  
 10. What are the consequences of mutations?

**2. RNA Structure**

1. What is the structure of RNA?  
 2. What are the components of RNA?  
 3. How is RNA synthesized?  
 4. What are the functions of RNA?  
 5. How does RNA differ from DNA?  
 6. What is the role of ribosomes?  
 7. How is RNA translated into protein?  
 8. What are the consequences of mutations?



**3. Protein Synthesis**

1. What is the central dogma of molecular biology?  
 2. How is DNA transcribed into RNA?  
 3. How is RNA translated into protein?  
 4. What is the role of ribosomes?  
 5. How is the genetic code read?  
 6. What are the consequences of mutations?

**4. DNA Replication**

1. How does DNA replicate?  
 2. What are the steps of DNA replication?  
 3. What is the role of DNA polymerase?  
 4. How is DNA proofread?  
 5. What are the consequences of errors during replication?

**5. Transcription**

1. How is DNA transcribed into RNA?  
 2. What are the steps of transcription?  
 3. What is the role of RNA polymerase?  
 4. How is RNA processed?

**6. Translation**

1. How is RNA translated into protein?  
 2. What are the steps of translation?  
 3. What is the role of ribosomes?  
 4. How is the genetic code read?

**7. Genetic Code**

5'	3'	5'	3'	5'	3'	5'	3'
ATG	CGT	AAA	GGG	TTT	CCC	AAA	GGG
ATG	CGT	AAA	GGG	TTT	CCC	AAA	GGG
ATG	CGT	AAA	GGG	TTT	CCC	AAA	GGG
ATG	CGT	AAA	GGG	TTT	CCC	AAA	GGG

1. How is the genetic code read?  
 2. What are the consequences of mutations?

# Dna Rna Protein Synthesis Study Guide Answers

**S. Scott Sutton**



## **Dna Rna Protein Synthesis Study Guide Answers:**

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Manual has been updated to reflect all of the changes to the text This ancillary tests the student on the learning objectives in each chapter and provides answers to all of the even numbered end of chapter exercises New additional activities have been added to include a review of each section of the chapter and a section entitled Tying It All Together with a Laboratory Application

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