

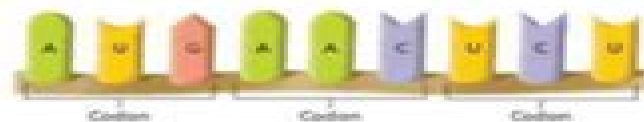
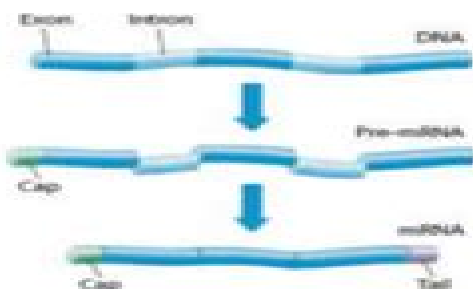
## Chapter 13 Study Guide: RNA and Protein Synthesis

### Vocabulary

RNA	RNA editing	Mutations
Uracil	Intron	Point mutation
Messenger RNA (mRNA)	Exon	Substitution
Transfer RNA (tRNA)	Polypeptide	Insertion
Ribosomal RNA (rRNA)	Genetic code	Deletion
RNA synthesis	Codon	Frameshift mutation
Transcription	Translation	Chromosomal mutation
RNA polymerase	Anticodon	Mutagen
Promoter	Gene expression	

### Concepts

1. Know the difference between a DNA nucleotide and an RNA nucleotide (DNA has deoxyribose; RNA has ribose in its nucleotides).
2. Compare and contrast DNA and RNA molecules, their functions, and where they are located in the cell.
3. Know base-pairing rules between DNA and RNA, and between RNA and RNA molecules.
4. List the three types of RNA and describe each of their functions.
5. List the steps involved in transcription (RNA synthesis).
6. List the molecules used in transcription.
7. Where does transcription occur?
8. What is the job of RNA polymerase in transcription?
9. What does the promoter tell RNA polymerase to do?
10. What happens to RNA before it can be used by a cell?
11. Explain how exons are different from introns.
12. List the steps involved in translation.
13. List the organelles and molecules involved in translation.
14. Where does translation occur?
15. Know how to use an mRNA codon chart to figure out the order of amino acids in a polypeptide chain made during translation.
16. Explain how codons and anticodons work with each other.
17. Know that information in cells travels in the following order: DNA → RNA → protein → trait.
18. Describe the two main categories of mutations (point and chromosomal).
19. List and describe the different types of point mutations.
20. Explain why frameshift mutations can be extremely damaging.
21. List and describe the different types of chromosomal mutations.
22. List some things that can cause mutations.
23. Know that mutations can have positive or negative impacts, both of which can affect evolution.



# Chapter 13 Rna Protein Synthesis Study Guide Answers

**Alisa Peet**



## **Chapter 13 Rna Protein Synthesis Study Guide Answers:**

## Unveiling the Magic of Words: A Review of "**Chapter 13 Rna Protein Synthesis Study Guide Answers**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Chapter 13 Rna Protein Synthesis Study Guide Answers**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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