#### Chapter 13 Study Guide: RNA and Protein Synthesis

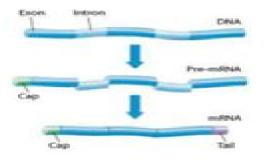
#### Vocabulary

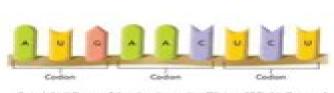
RNA
Uracil
Messenger RNA (mRNA)
Transfer RNA (tRNA)
Ribosomal RNA (rRNA)
RNA synthesis
Transcription
RNA polymerase

RNA editing Intron Exon Polypeptide Genetic code Codon Translation Anticodon Gene expression Mutations
Point mutation
Substitution
Insertion
Deletion
Frameshift mutation
Chromosomal mutation
Mutagen

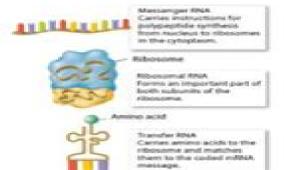
### Promoter Concepts

- 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.
- Know base-pairing rules between DNA and RNA, and between RNA and RNA molecules.
- List the three types of RNA and describe each of their functions.
- 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.
- List the organelles and molecules involved in translation.
- 14. Where does translation occur?
- Know how to use an mRNA codon chart to figure out the order of amino acids in a polypeptide chain made during translation.
- Explain how codons and anticodons work with each other.
- Know that information in cells travels in the following order: DNA → RNA → protein → trait.
- Describe the two main categories of mutations (point and chromosomal).
- List and describe the different types of point mutations.
- Explain why frameshift mutations can be extremely damaging.
- 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.





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**VM** Jensen

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