

## RNA Synthesis

For Questions 4–10, complete each statement by writing the correct word or words.

3. The process of using DNA to produce complementary RNA molecules is called **transcription**.
4. The sequence of **transcribed** in mRNA complements the sequence in the DNA template.
5. In eukaryotes, RNA is formed in the **cell's nucleus** and then travels to the **cytoplasm**.
6. The enzyme **RNA polymerase** binds to DNA during transcription.
7. RNA polymerase binds to regions of DNA called **promoters**, which are “start” signals for transcription.
8. **introns** are portions of RNA that are cut out and discarded.
9. **exons** are spliced together to make the final mRNA.

## 13.2 Ribosomes and Protein Synthesis

### Lesson Objectives

Identify the genetic code and explain how it is read.

Summarize the process of translation.

Describe the “central dogma” of molecular biology.

### Lesson Summary

**The Genetic Code** A specific sequence of bases in DNA carries the directions for forming a **polypeptide**, a chain of amino acids. The types and order of amino acids in a polypeptide determine the properties of the protein. The sequence of bases in mRNA is the **genetic code**. The four bases, A, C, G, and U, act as “letters.”

3. The code is read three “letters” at a time, so that each “word” is three bases long and corresponds to a single amino acid. Each three-letter “word” in mRNA is known as a **codon**.

Some codons serve as “start” and “stop” signals for protein synthesis.

**Translation** Ribosomes use the sequence of codons in mRNA to assemble amino acids into polypeptide chains. The process of decoding of an mRNA message into a protein is **translation**.

Messenger RNA is transcribed in the nucleus and then enters the cytoplasm.

4. On the ribosome, translation begins at the start codon. Each codon attracts an **anticodon**, the complementary sequence of bases on tRNA.
5. Each tRNA carries one kind of amino acid. The match between the codon and anticodon ensures that the correct amino acid is added to the growing chain.
6. The amino acids bond together, each in turn. The ribosome moves along the mRNA, exposing codons that attract still more tRNAs with their attached amino acids.
7. The process concludes when a “stop code” is reached. The newly formed polypeptide and the mRNA molecule are released from the ribosome.
8. **The Molecular Basis of Heredity** Molecular biology seeks to explain living organisms by studying them at the molecular level, using molecules like DNA and RNA.
9. The central dogma of molecular biology is that information is transferred from DNA to RNA to protein.

# Chapter 13 Rna And Protein Synthesis Worksheet Answers

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## Chapter 13 Rna And Protein Synthesis Worksheet Answers:

A Guide to Asking about Life for Teachers and TAs Donald L. Cronkite, 2001      *Holt Biology Chapter 13 Resource File: DNA, RNA, and Proteins* Holt Rinehart & Winston, 2008-01-01      Transfer RNA in Protein Synthesis Dolph L. Hatfield, Byeong J. Lee, Robert M. Pirtle, 1992      *Protein Biosynthesis* Alan E. Smith, 1976 A Halsted Press book      Protein Synthesis and Ribosome Structure Knud H. Nierhaus, Daniel Wilson, 2009-07-10 Knud Nierhaus who has studied the ribosome for more than 30 years has assembled here the combined efforts of several scientific disciplines into a uniform picture of the largest enzyme complex found in living cells finally resolving many decades old questions in molecular biology In so doing he considers virtually all aspects of ribosome structure and function from the molecular mechanism of different ribosomal ribozyme activities to their selective inhibition by antibiotics from assembly of the core particle to the regulation of ribosome component synthesis The result is a premier resource for anyone with an interest in ribosomal protein synthesis whether in the context of molecular biology biotechnology pharmacology or molecular medicine      *The Biosynthesis of Proteins* H. Chantrenne, 1961      The Effect of Messenger RNA on Protein Synthesis in Echinoid Eggs and Zygotes Anita Marie Colin, 1985

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