

DNA & RNA

GUIDED READING & PRACTICE WORKSHEETS

NAME _____
PER _____
DATE _____

RNA

1

(1) RNA (ribonucleic acid) is a type of nucleic acid that stores a temporary code of genetic information. The process of making proteins. The genetic information in DNA is transcribed into RNA, which is then translated into proteins in a process called the Central Dogma of Biology. It contains the code (instructions) that tell cells how to carry out a variety of important functions in the human body.

(2) Like DNA, RNA is composed of a long chain of nucleotides. However, unlike DNA, RNA is composed of a single strand of nucleotides instead of the double-stranded structure of deoxyribonucleic acid. RNA can be further divided into several types of RNA, each with its own unique function.

(3) There are three main types of RNA, each with its own unique function:

1. Messenger RNA (mRNA) carries the genetic information from DNA in the nucleus for creating a complementary strand of protein from the code on the RNA strand. Once this strand carries that genetic information, it leaves the nucleus and carries the instructions for how proteins in the cytoplasm should be built.
2. Transfer RNA (tRNA) also carries the genetic information from mRNA into a specific sequence of amino acids, which are the basic building blocks of proteins. tRNA carries the amino acids and tRNA-tRNA interactions with transfer RNA to the complementary genetic code on the mRNA.
3. Ribosomal RNA (rRNA) is the site of protein synthesis and is a major component of ribosomes. Ribosomes bring proteins and are found at the cytoplasm of a cell. Proteins are synthesized by transfer RNA at the ribosome. The ribosome is the site where the DNA code is translated into a protein.

2




RNA PRACTICE

1

1. What is the full name of RNA?

2. What is the primary role of RNA?

3. How many strands does a molecule of RNA consist of?

4. What are the building blocks of proteins?

5. Summarize the roles of the following types of RNA:

mRNA	tRNA	rRNA

2

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DNA

1

(1) DNA (deoxyribonucleic acid) is a nucleic acid that stores the genetic information that is passed on from one generation to the next. The structure, function, development, and transmission of all living organisms is written in the code on DNA. DNA is a double-stranded molecule in the shape of a double helix.

(2) Nucleotides are the building blocks of DNA. Each nucleotide consists of deoxyribose sugar, a phosphate group, and a nitrogenous base. The sugar and phosphate groups are linked together by phosphodiester bonds to form the sugar-phosphate backbone of DNA. There are four types of nitrogenous bases in DNA: adenine (A), guanine (G), cytosine (C), and thymine (T).

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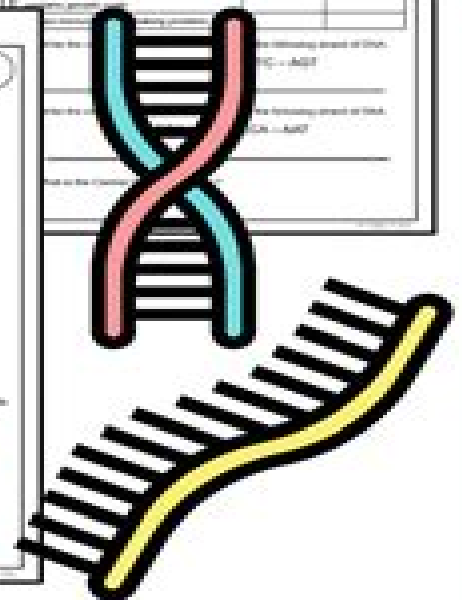
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GRADES 8-12



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Worksheet On Dna Rna And Protein Synthesis

Rachel S Tattersall



Worksheet On Dna Rna And Protein Synthesis:

The book delves into Worksheet On Dna Rna And Protein Synthesis. Worksheet On Dna Rna And Protein Synthesis is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Worksheet On Dna Rna And Protein Synthesis, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Worksheet On Dna Rna And Protein Synthesis
 - Chapter 2: Essential Elements of Worksheet On Dna Rna And Protein Synthesis
 - Chapter 3: Worksheet On Dna Rna And Protein Synthesis in Everyday Life
 - Chapter 4: Worksheet On Dna Rna And Protein Synthesis in Specific Contexts
 - Chapter 5: Conclusion
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 3. In chapter 2, the author will delve into the foundational concepts of Worksheet On Dna Rna And Protein Synthesis. The second chapter will elucidate the essential principles that need to be understood to grasp Worksheet On Dna Rna And Protein Synthesis in its entirety.
 4. In chapter 3, this book will examine the practical applications of Worksheet On Dna Rna And Protein Synthesis in daily life. The third chapter will showcase real-world examples of how Worksheet On Dna Rna And Protein Synthesis can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Worksheet On Dna Rna And Protein Synthesis in specific contexts. This chapter will explore how Worksheet On Dna Rna And Protein Synthesis is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Worksheet On Dna Rna And Protein Synthesis. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Worksheet On Dna Rna And Protein Synthesis.

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