

DNA & RNA

GUIDED READING & PRACTICE WORKSHEETS

RNA **RNA PRACTICE**

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?

4. What are the building blocks of RNA?

5. Summarize the role of the following types of RNA.

mRNA	tRNA	rRNA

6. There are three main types of RNA. What ability do each unique function?

7. Messenger RNA (mRNA) carries genetic information from DNA in the nucleus for creating a complementary strand of protein from the code in the RNA strand. Once created, mRNA carries that genetic information to the ribosome where proteins are synthesized for use in the cell.

8. Transfer RNA (tRNA) carries the genetic information from mRNA into a specific sequence of amino acids, which are the building blocks of proteins. tRNA carries a specific amino acid to the ribosome and transfers it to the complementary genetic code on the mRNA.

9. Ribosomal RNA (rRNA) is the site of protein synthesis and is composed of ribosomes. Ribosomes make proteins and are found in the cytoplasm of a cell. Proteins are subsequently released from the ribosome and transfer to the cytoplasm where they are used for various functions.

10. RNA is found in the nucleus of eukaryotic cells and in the cytoplasm of prokaryotic cells. It is packaged into structures called chromosomes, which are tightly organized during cell division to ensure that each new cell receives a complete set of genetic information.

Observe the diagram to the right. These are the following:

- 1. A nucleotide consists of a deoxyribose sugar, a phosphate group, and a nitrogenous base.
- 2. A sugar-phosphate backbone runs down each side of a DNA molecule.
- 3. Bases are complementary to one another.
- 4. A pairs with T.
- 5. C pairs with G.



DNA VS. RNA

1. What are the differences and similarities between DNA and RNA in terms of their structure, function, and location?

Characteristics	DNA	RNA
Structure	Double helix	Single strand
Location	Nucleus	Cytoplasm
Function	Stores genetic information	Transfers genetic information
Stability	Stable	Unstable
Size	Large	Small
Base pairing	A-T, C-G	A-U, C-G

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6. What are the differences and similarities between DNA and RNA in terms of their structure, function, and location?

7. What are the differences and similarities between DNA and RNA in terms of their structure, function, and location?

8. What are the differences and similarities between DNA and RNA in terms of their structure, function, and location?

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Table of Contents 12 1 Dna Reading Guide Answers

1. Understanding the eBook 12 1 Dna Reading Guide Answers
 - The Rise of Digital Reading 12 1 Dna Reading Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying 12 1 Dna Reading Guide Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 12 1 Dna Reading Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from 12 1 Dna Reading Guide Answers
 - Personalized Recommendations
 - 12 1 Dna Reading Guide Answers User Reviews and Ratings
 - 12 1 Dna Reading Guide Answers and Bestseller Lists

5. Accessing 12 1 Dna Reading Guide Answers Free and Paid eBooks
 - 12 1 Dna Reading Guide Answers Public Domain eBooks
 - 12 1 Dna Reading Guide Answers eBook Subscription Services
 - 12 1 Dna Reading Guide Answers Budget-Friendly Options
6. Navigating 12 1 Dna Reading Guide Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - 12 1 Dna Reading Guide Answers Compatibility with Devices
 - 12 1 Dna Reading Guide Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 12 1 Dna Reading Guide Answers
 - Highlighting and Note-Taking 12 1 Dna Reading Guide Answers
 - Interactive Elements 12 1 Dna Reading Guide Answers
8. Staying Engaged with 12 1 Dna Reading Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 12 1 Dna Reading Guide Answers
9. Balancing eBooks and Physical Books 12 1 Dna Reading Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 12 1 Dna Reading Guide Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 12 1 Dna Reading Guide Answers
 - Setting Reading Goals 12 1 Dna Reading Guide Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 12 1 Dna Reading Guide Answers
 - Fact-Checking eBook Content of 12 1 Dna Reading Guide Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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