

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 idea 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 RNA in the cytoplasm. Once created, mRNA carries that genetic information to the ribosome where the instructions for synthesis of a protein are followed.

8. Transfer RNA (tRNA) carries the genetic information from mRNA to 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 the largest component of ribosomes. Ribosomes make proteins and are found in the cytoplasm of a cell. Prokaryotes are unicellular organisms that lack a nucleus and membrane-bound organelles. Eukaryotes are multicellular organisms that have a nucleus and membrane-bound organelles.


10. RNA is made up of a single strand of nucleotides. Each nucleotide consists of a phosphate group, a sugar, and a nitrogenous base. The sugar and phosphate form neighboring nucleotides (bond together) to form the sugar-phosphate backbone of RNA. There are four types of nitrogenous bases in RNA: adenine (A), uracil (U), cytosine (C), and guanine (G). These bases pair with each other in a specific way: A pairs with U and C pairs with G, forming base pairs that hold the two complementary strands of the double helix together.

11. The sequence of these units contains the genetic code, which determines the traits of an organism. The genetic information in DNA is transcribed into RNA, which is then translated into proteins. Proteins are the building blocks of the cell and are responsible for a wide variety of biological processes.

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

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

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

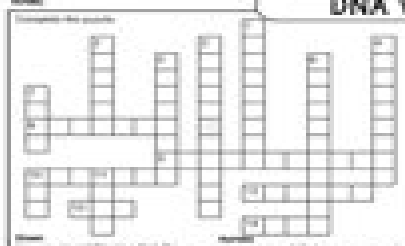


DNA VS. RNA

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
Building blocks	Nucleotides	Nucleotides
Backbone	Sugar-phosphate	Sugar-phosphate
Bases	Adenine, Thymine, Cytosine, Guanine	Adenine, Uracil, Cytosine, Guanine

2. Complete the puzzle.



3. Write the answers in the grid below.

4. What is the full name of DNA?

5. What does DNA consist?

6. What does DNA code for?

7. Describe the structure of DNA.

8. What are nucleotides and what do they make up of?



9. What makes up the DNA backbone?



10. What makes up the DNA backbone?

11. What does the sequence of base pairs determine?

12. Where is DNA found in eukaryotic cells?

Write the correct letter of the complementary base pair for each nucleotide in DNA. The first two are done for you.

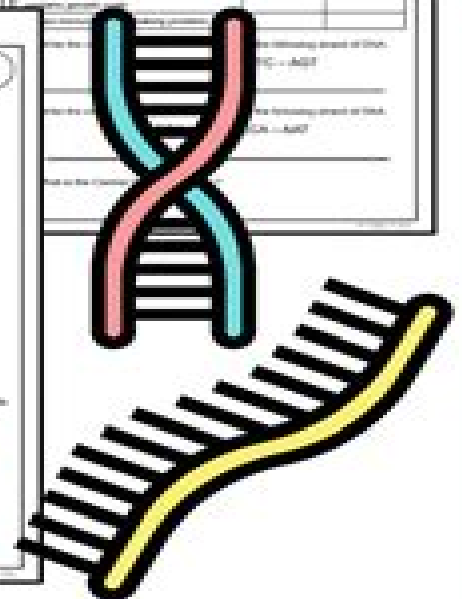
13.  

14.  

GRADES
8-12



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Table of Contents Skills Worksheet Directed Reading A Dna Answer Key

1. Understanding the eBook Skills Worksheet Directed Reading A Dna Answer Key
 - The Rise of Digital Reading Skills Worksheet Directed Reading A Dna Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Skills Worksheet Directed Reading A Dna Answer Key
 - 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 Skills Worksheet Directed Reading A Dna Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Skills Worksheet Directed Reading A Dna Answer Key
 - Personalized Recommendations
 - Skills Worksheet Directed Reading A Dna Answer Key User Reviews and Ratings
 - Skills Worksheet Directed Reading A Dna Answer Key and Bestseller Lists
5. Accessing Skills Worksheet Directed Reading A Dna Answer Key Free and Paid eBooks
 - Skills Worksheet Directed Reading A Dna Answer Key Public Domain eBooks
 - Skills Worksheet Directed Reading A Dna Answer Key eBook Subscription Services
 - Skills Worksheet Directed Reading A Dna Answer Key Budget-Friendly Options
6. Navigating Skills Worksheet Directed Reading A Dna Answer Key eBook Formats

- ePub, PDF, MOBI, and More
 - Skills Worksheet Directed Reading A Dna Answer Key Compatibility with Devices
 - Skills Worksheet Directed Reading A Dna Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Skills Worksheet Directed Reading A Dna Answer Key
 - Highlighting and Note-Taking Skills Worksheet Directed Reading A Dna Answer Key
 - Interactive Elements Skills Worksheet Directed Reading A Dna Answer Key
 8. Staying Engaged with Skills Worksheet Directed Reading A Dna Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Skills Worksheet Directed Reading A Dna Answer Key
 9. Balancing eBooks and Physical Books Skills Worksheet Directed Reading A Dna Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Skills Worksheet Directed Reading A Dna Answer Key
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Skills Worksheet Directed Reading A Dna Answer Key
 - Setting Reading Goals Skills Worksheet Directed Reading A Dna Answer Key
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Skills Worksheet Directed Reading A Dna Answer Key
 - Fact-Checking eBook Content of Skills Worksheet Directed Reading A Dna Answer Key
 - 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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