

DNA & RNA

GUIDED READING & PRACTICE WORKSHEETS

DNA

1

(1) What information does a single strand of nucleic acid hold when it contains the genetic information in DNA (deoxyribonucleic acid)?

What, almost a century later, has been shown to be the code for life? (The Code of Biology) (Provide one line of evidence for this and clearly state a variety of important functions in the human body.)

(2) What does DNA, which is composed of a long chain of supercoiled, interwoven spiral DNA, hold in supercoiled, condensed, and organized form? (Provide one line of evidence for this and clearly state a variety of important functions in the human body.)

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

1. Messenger RNA (mRNA) carries genetic information from DNA to the nucleus for translation to proteins. (Provide one line of evidence for this and clearly state a variety of important functions in the human body.)
2. Transfer RNA (tRNA) carries genetic information from mRNA to the ribosome for translation to proteins. (Provide one line of evidence for this and clearly state a variety of important functions in the human body.)
3. Ribosomal RNA (rRNA) is the site of protein synthesis and is a major component of ribosomes. (Provide one line of evidence for this and clearly state a variety of important functions in the human body.)

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 mRNA consist?
4. What are the building blocks of proteins?
5. Summarize the role of the following types of RNA:

mRNA	tRNA	rRNA

DNA

1


(1) DNA (deoxyribonucleic acid) is a nucleic acid that contains genetic information and instructions that code for the structure, function, development, and reproduction of all living organisms. It is written in the code in DNA. (What 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 form the backbone, nucleotides form the rungs of the ladder.)

(3) Nucleotides are the building blocks of DNA. There are four types of nitrogen bases in DNA: adenine (A), thymine (T), cytosine (C), and guanine (G).

DNA VS. RNA

Complete the words.




1) Match each description with structure A or structure B (DNA, RNA or both). There are three extra remaining for the structure that describes both.

Characteristics	DNA	RNA
Number of strands		
Strand composition		
Strand association		
Strand location		
Strand stability		
Strand function		
Strand shape		
Strand size		
Strand color		
Strand texture		
Strand weight		
Strand length		
Strand width		
Strand thickness		
Strand height		
Strand depth		
Strand volume		
Strand mass		
Strand density		
Strand temperature		
Strand pressure		
Strand pH		
Strand concentration		
Strand composition		
Strand structure		
Strand function		
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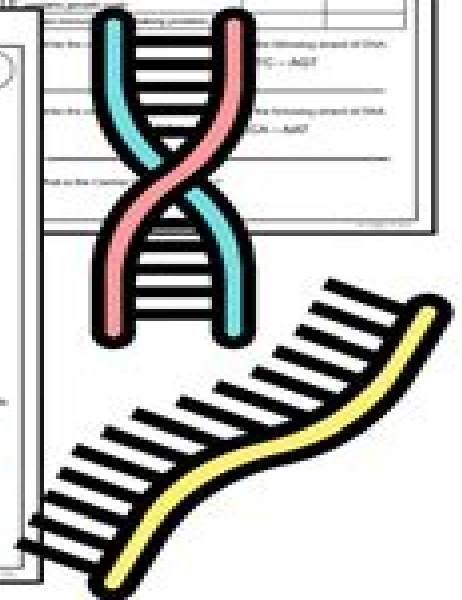
DNA PRACTICE

- What is the full name of DNA?
- What does DNA consist of?
- What does DNA code for?
- Describe the structure of DNA.

2



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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