

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 do they do in your 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 proteins are synthesized for use in the cell.

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 composed of ribosomes. Ribosomes make proteins and are found in the cytoplasm of a cell. Proteins are subsequently folded and used for various functions in the cell.

RNA is made up of 5 parts: 1. 2. 3. 4. 5.

DNA VS. RNA

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

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

2. Complete the puzzle.

3. Write the full name of DNA.

4. What does DNA consist?

5. What does DNA code for?

6. Describe the structure of DNA.

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

8. What makes up the DNA backbone?

9. What does the sequence of base pairs determine?

10. 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.

1. A

2. T

3. C

4. G

5. A

6. T

7. C

8. G

9. A

10. T

GRADES
8-12



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4. G

5. A

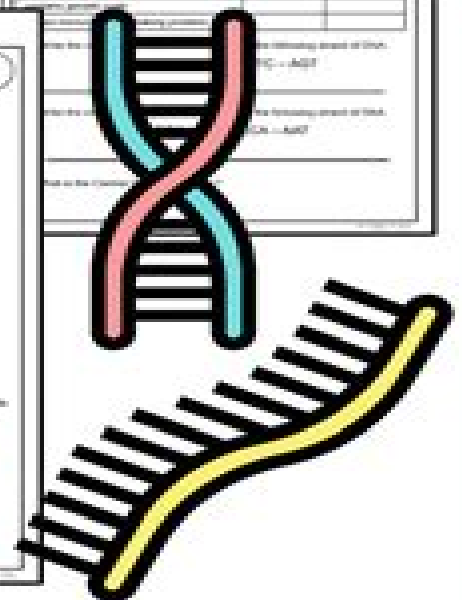
6. T

7. C

8. G

9. A

10. T



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Kathryn L. McCance, Sue E. Huether



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Irons,2012-11-19 This fourth edition of the best selling textbook Human Genetics and Genomics clearly explains the key principles needed by medical and health sciences students from the basis of molecular genetics to clinical applications used in the treatment of both rare and common conditions A newly expanded Part 1 Basic Principles of Human Genetics focuses on introducing the reader to key concepts such as Mendelian principles DNA replication and gene expression Part 2 Genetics and Genomics in Medical Practice uses case scenarios to help you engage with current genetic practice Now featuring full color diagrams Human Genetics and Genomics has been rigorously updated to reflect today s genetics teaching and includes updated discussion of genetic risk assessment single gene disorders and therapeutics Key learning features include Clinical snapshots to help relate science to practice Hot topics boxes that focus on the latest developments in testing assessment and treatment Ethical issues boxes to prompt further thought and discussion on the implications of genetic developments Sources of information boxes to assist with the practicalities of clinical research and information provision Self assessment review questions in each chapter Accompanied by the Wiley E Text digital edition included in the price of the book Human Genetics and Genomics is also fully supported by a suite of online resources at www.korfgenetics.com including Factsheets on 100 genetic disorders ideal for study and exam preparation Interactive Multiple Choice Questions MCQs with feedback on all answers Links to online resources for further study Figures from the book available as PowerPoint slides ideal for teaching purposes The perfect companion to the genetics component of both problem based learning and integrated medical courses Human Genetics and Genomics presents the ideal balance between the bio molecular basis of genetics and clinical cases and provides an invaluable overview for anyone wishing to engage with this fast moving discipline **Study Guide to**

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Horneck,Petra Rettberg,2008-06-25 This up to date resource is based on lectures developed by experts in the relevant fields and carefully edited by the leading astrobiologists within the European community Aimed at graduate students in physics astronomy and biology and their lecturers the text begins with a general introduction to astrobiology followed by sections on basic prebiotic chemistry extremophiles and habitability in our solar system and beyond A discussion of astrodynamics leads to a look at experimental facilities and instrumentation for space experiments and ultimately astrobiology missions backed in each case by the latest research results from this fascinating field Includes a CD ROM with additional course material

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Answers to End of Chapter Questions for Biology: Udl David J. Cotter,1998-01-13 *Understanding Chemistry* Fred M. Dewey,1994

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 biochemistry **Study Guide for Introductory Chemistry** Iris Stovall,1990 *Code of Federal Regulations* ,2008 Special
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 with ancillaries Study Guide for Introductory Chemistry, a Foundation, Introductory Chemistry, Basic Chemistry Iris
 Stovall,Steven S. Zumdahl,1996 Study Guide to Accompany Textbook of Basic Nursing Joyce Young
 Johnson,Rosdahl,Phyllis Prather Hicks,1999-03 **Prokaryotic Gene Regulation** Eveline Peeters,Indra
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 with focus on the different levels of information processing and usefulness for various model organisms whether archaeal
 bacterial or both The chapters in this book are divided into four sections Section One covers methods that enable the study of
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Table of Contents Chapter 1dna And Rna Section Answer Key

1. Understanding the eBook Chapter 1dna And Rna Section Answer Key
 - The Rise of Digital Reading Chapter 1dna And Rna Section Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 1dna And Rna Section 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 Chapter 1dna And Rna Section Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 1dna And Rna Section Answer Key
 - Personalized Recommendations
 - Chapter 1dna And Rna Section Answer Key User Reviews and Ratings
 - Chapter 1dna And Rna Section Answer Key and Bestseller Lists
5. Accessing Chapter 1dna And Rna Section Answer Key Free and Paid eBooks

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