



## 12.3 DNA Replication

### Lesson Objectives

-  Summarize the events of DNA replication.
-  Compare DNA replication in prokaryotes with that of eukaryotes.

### Lesson Summary

**Copying the Code** Each strand of the double helix has all the information needed to reconstruct the other half by the mechanism of base pairing. Because each strand can be used to make the other strand, the strands are said to be complementary. DNA copies itself through the process of **replication**:

- ▶ The two strands of the double helix unzip, forming replication forks.
- ▶ New bases are added, following the rules of base pairing (A with T and G with C).
- ▶ Each new DNA molecule has one original strand and one new strand.
- ▶ **DNA polymerase** is an enzyme that joins individual nucleotides to produce a new strand of DNA.
- ▶ During replication, DNA may be lost from the tips of chromosomes, which are called **telomeres**.

**Replication in Living Cells** The cells of most prokaryotes have a single, circular DNA molecule in the cytoplasm. Eukaryotic cells have much more DNA. Nearly all of it is contained in chromosomes, which are in the nucleus.

- ▶ Replication in most prokaryotic cells starts from a single point and proceeds in two directions until the entire chromosome is copied.
- ▶ In eukaryotic cells, replication may begin at dozens or even hundreds of places on the DNA molecule, proceeding in both directions until each chromosome is completely copied.

### Copying the Code

1. Why are the strands of a DNA molecule said to be complementary?

*Because each strand can be used to make the other strand.*

2. What is the first step in eukaryotic DNA replication?

*The strands of the double helix separate, or unzip.*

3. If the base sequence on a separated DNA strand is CGTAGG, what will the base sequence on its complementary strand be?

*The complementary strand will be GCATCC.*

4. What enzyme joins individual nucleotides to produce the new strand of DNA?

*DNA polymerase*

## Section 3 Reinforcement Dna Answers

**Ying Liu**



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*Glencoe Science* McGraw-Hill Staff,2001-08 **Learning About Cells, Grades 4 - 8** Routh,2008-09-02 Connect students in grades 4 and up with science using Learning about Cells In this 48 page resource students learn what cells are the parts of cells how cells live and reproduce and how to use a microscope to view them It establishes a dialogue with students to encourage their interest and participation in creative and straightforward activities The book also includes a vocabulary list and a unit test This book supports National Science Education Standards **Genetics** Daniel Hartl,Maryellen Ruvolo,2012 This textbook gives an introduction to genetics and genomics at the college level It contains a chapter on human genetic evolution Other chapters treat transmission genetics molecular genetics and evolutionary genetics and provide an understanding of the basic process of gene transmission mutation expression and regulation **Genetics** Daniel L. Hartl,2011-08-05 Thoroughly revised and updated with the latest data from this every changing field the Eighth Edition of *Genetics Analysis of Genes and Genomes* provides a clear balanced and comprehensive introduction to genetics and genomics at the college level Expanding upon the key elements that have made this text a success Hartl has included updates throughout as well as a new chapter dedicated to genetic evolution He continues to treat transmission genetics molecular genetics and evolutionary genetics as fully integrated subjects and provide students with an unprecedented understanding of the basic process of gene transmission mutation expression and regulation New chapter openers include a new section highlighting scientific competencies while end of chapter Guide to Problem Solving sections demonstrate the concepts needed to efficiently solve problems and understand the reasoning behind the correct answer **Prentice Hall Science** Anthea Maton,Jill D. Wright,Jean Hopkins,Susan Johnson,David Lahart,Maryanna Quon Warner,1994

**Customizable Agile Development** Kanika Sud,2025-03-17 The one size fits all approach to Agile project management

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*Cells*, 1997 [Essentials of Criminological Theory](#) L. Thomas Winfree, Jr., Jennifer Wareham, Howard Abadinsky, 2025-07-15 Tracing the evolution of theories and their influence, the authors provide a solid foundation for understanding why people commit crime and the role theory plays in criminal justice practices. The book is an overview of the essentials of criminological theory: its origins, assumptions, causal arguments, applications, and insights into new directions suggested by current testing, expansion, and use of the theories. Ideas that attempt to describe, explain, predict, and possibly control a specific behavior sometimes remain as originally conceived and sometimes evolve into something quite different. Change is an important and exciting aspect of crime theory. To help readers assimilate and synthesize the essentials of criminological theory, each chapter contains learning objectives, boxed material to stimulate critical thinking, key terms, summaries, and critical review questions. A comprehensive glossary facilitates easy review of important terms.

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Index Medicus, 2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

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## **Table of Contents Section 3 Reinforcement Dna Answers**

1. Understanding the eBook Section 3 Reinforcement Dna Answers
  - The Rise of Digital Reading Section 3 Reinforcement Dna Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Section 3 Reinforcement Dna 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 Section 3 Reinforcement Dna Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Section 3 Reinforcement Dna Answers
  - Personalized Recommendations
  - Section 3 Reinforcement Dna Answers User Reviews and Ratings
  - Section 3 Reinforcement Dna Answers and Bestseller Lists
5. Accessing Section 3 Reinforcement Dna Answers Free and Paid eBooks
  - Section 3 Reinforcement Dna Answers Public Domain eBooks
  - Section 3 Reinforcement Dna Answers eBook Subscription Services
  - Section 3 Reinforcement Dna Answers Budget-Friendly Options
6. Navigating Section 3 Reinforcement Dna Answers eBook Formats

- ePub, PDF, MOBI, and More
- Section 3 Reinforcement Dna Answers Compatibility with Devices
- Section 3 Reinforcement Dna Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Section 3 Reinforcement Dna Answers
  - Highlighting and Note-Taking Section 3 Reinforcement Dna Answers
  - Interactive Elements Section 3 Reinforcement Dna Answers
- 8. Staying Engaged with Section 3 Reinforcement Dna Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Section 3 Reinforcement Dna Answers
- 9. Balancing eBooks and Physical Books Section 3 Reinforcement Dna Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Section 3 Reinforcement Dna Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Section 3 Reinforcement Dna Answers
  - Setting Reading Goals Section 3 Reinforcement Dna Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Section 3 Reinforcement Dna Answers
  - Fact-Checking eBook Content of Section 3 Reinforcement Dna 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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