

**Chapter 12 DNA and RNA****Section 12–1 DNA (pages 287–294)**

*This section tells about the experiments that helped scientists discover the relationship between genes and DNA. It also describes the chemical structure of the DNA molecule.*

**Griffith and Transformation (pages 287–289)**

1. What did Frederick Griffith want to learn about bacteria? He wanted to learn how certain types of bacteria produce pneumonia.
2. The strain of bacteria that caused pneumonia grew into smooth colonies on culture plates; harmless bacteria produced colonies with rough edges.
3. Circle the letter of each sentence that is true about Griffith's experiment.
  - ☒ a. Mice injected with bacteria from smooth colonies died.
  - ☐ b. Mice injected with bacteria from rough colonies died.
  - ☐ c. Mice injected with heat-killed bacteria from smooth colonies died.
  - ☒ d. Mice injected with a mixture of bacteria from heat-killed smooth colonies and live rough colonies died.
4. What result from Griffith's experiment suggested that the cause of pneumonia was not a chemical poison released by the disease-causing bacteria? The mice survived after being injected with heat-killed disease-causing bacteria.
5. What is transformation? It is the process by which one strain of bacteria changes into another.
6. What hypothesis did Griffith form from the results of his experiments? Some factor, which might be a gene, was transferred from the heat-killed bacteria cells into the live cells.

**Avery and DNA (page 289)**

7. Is the following sentence true or false? Avery and his colleagues thought that the molecule required in transformation might also be the molecule of the gene.  
true
8. Briefly describe how Avery and his group determined which molecule was most important for transformation? They treated the extract of heat-killed bacteria with enzymes that destroyed proteins, lipids, carbohydrates, and other molecules, including RNA and DNA.

# Guided Reading And Study Workbook Chapter 12

## Answers12 3

**Mary Harrington**



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### **Table of Contents Guided Reading And Study Workbook Chapter 12 Answers12 3**

1. Understanding the eBook Guided Reading And Study Workbook Chapter 12 Answers12 3
  - The Rise of Digital Reading Guided Reading And Study Workbook Chapter 12 Answers12 3
  - Advantages of eBooks Over Traditional Books
2. Identifying Guided Reading And Study Workbook Chapter 12 Answers12 3
  - 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 Guided Reading And Study Workbook Chapter 12 Answers12 3
  - User-Friendly Interface
4. Exploring eBook Recommendations from Guided Reading And Study Workbook Chapter 12 Answers12 3
  - Personalized Recommendations
  - Guided Reading And Study Workbook Chapter 12 Answers12 3 User Reviews and Ratings
  - Guided Reading And Study Workbook Chapter 12 Answers12 3 and Bestseller Lists

5. Accessing Guided Reading And Study Workbook Chapter 12 Answers12 3 Free and Paid eBooks
  - Guided Reading And Study Workbook Chapter 12 Answers12 3 Public Domain eBooks
  - Guided Reading And Study Workbook Chapter 12 Answers12 3 eBook Subscription Services
  - Guided Reading And Study Workbook Chapter 12 Answers12 3 Budget-Friendly Options
6. Navigating Guided Reading And Study Workbook Chapter 12 Answers12 3 eBook Formats
  - ePub, PDF, MOBI, and More
  - Guided Reading And Study Workbook Chapter 12 Answers12 3 Compatibility with Devices
  - Guided Reading And Study Workbook Chapter 12 Answers12 3 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Guided Reading And Study Workbook Chapter 12 Answers12 3
  - Highlighting and Note-Taking Guided Reading And Study Workbook Chapter 12 Answers12 3
  - Interactive Elements Guided Reading And Study Workbook Chapter 12 Answers12 3
8. Staying Engaged with Guided Reading And Study Workbook Chapter 12 Answers12 3
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Guided Reading And Study Workbook Chapter 12 Answers12 3
9. Balancing eBooks and Physical Books Guided Reading And Study Workbook Chapter 12 Answers12 3
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Guided Reading And Study Workbook Chapter 12 Answers12 3
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Guided Reading And Study Workbook Chapter 12 Answers12 3
  - Setting Reading Goals Guided Reading And Study Workbook Chapter 12 Answers12 3
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Guided Reading And Study Workbook Chapter 12 Answers12 3
  - Fact-Checking eBook Content of Guided Reading And Study Workbook Chapter 12 Answers12 3
  - 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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