

**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.

# Dna The Genetic Material Worksheet Answers

**Mark Steyvers**



**Dna The Genetic Material Worksheet Answers:**

The book delves into Dna The Genetic Material Worksheet Answers. Dna The Genetic Material Worksheet Answers is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Dna The Genetic Material Worksheet Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Dna The Genetic Material Worksheet Answers
    - Chapter 2: Essential Elements of Dna The Genetic Material Worksheet Answers
    - Chapter 3: Dna The Genetic Material Worksheet Answers in Everyday Life
    - Chapter 4: Dna The Genetic Material Worksheet Answers in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Dna The Genetic Material Worksheet Answers. The first chapter will explore what Dna The Genetic Material Worksheet Answers is, why Dna The Genetic Material Worksheet Answers is vital, and how to effectively learn about Dna The Genetic Material Worksheet Answers.
  3. In chapter 2, the author will delve into the foundational concepts of Dna The Genetic Material Worksheet Answers. This chapter will elucidate the essential principles that need to be understood to grasp Dna The Genetic Material Worksheet Answers in its entirety.
  4. In chapter 3, the author will examine the practical applications of Dna The Genetic Material Worksheet Answers in daily life. This chapter will showcase real-world examples of how Dna The Genetic Material Worksheet Answers can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Dna The Genetic Material Worksheet Answers in specific contexts. The fourth chapter will explore how Dna The Genetic Material Worksheet Answers is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Dna The Genetic Material Worksheet Answers. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Dna The Genetic Material Worksheet Answers.

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