

## Section 13-2 Manipulating DNA (pages 323-326)

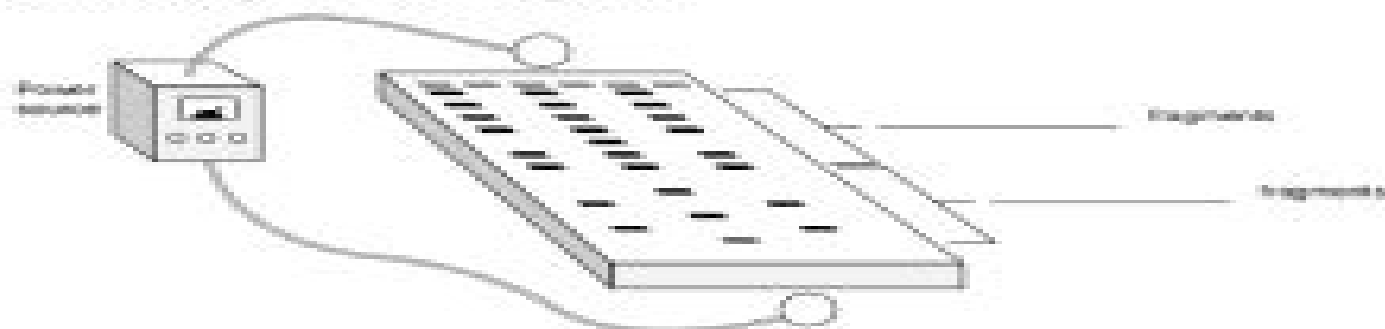


**TEKS SUPPORT:** SA Describe components of DNA.

This section describes the various techniques used by molecular biologists to study and change DNA molecules.

### The Tools of Molecular Biology (pages 323-326)

1. What is genetic engineering? \_\_\_\_\_  
\_\_\_\_\_
2. Is the following sentence true or false? Making changes to the DNA code is similar to changing the code of a computer program. \_\_\_\_\_
3. Scientists use their knowledge of the \_\_\_\_\_ of DNA and its \_\_\_\_\_ properties to study and change DNA molecules.
4. List four different techniques that molecular biologists use to study and change DNA molecules.  
a. \_\_\_\_\_  
b. \_\_\_\_\_  
c. \_\_\_\_\_  
d. \_\_\_\_\_
5. Explain how biologists get DNA out of a cell. \_\_\_\_\_  
\_\_\_\_\_
6. Biologists use \_\_\_\_\_ to cut DNA molecules at a specific sequence of nucleotides to make smaller fragments.
7. Circle the letter of the process by which DNA fragments are separated and analyzed.  
a. gel electrophoresis                      c. transformation  
b. extraction                                  d. restriction
8. In the diagram below, label the positive and negative ends of the gel and identify the location of longer and shorter fragments.



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# Manipulating Dna Answer Key

**Michael Seilmaier**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Manipulating Dna Answer Key:**

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

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Manipulating Dna Answer Key
    - Chapter 2: Essential Elements of Manipulating Dna Answer Key
    - Chapter 3: Manipulating Dna Answer Key in Everyday Life
    - Chapter 4: Manipulating Dna Answer Key in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Manipulating Dna Answer Key. The first chapter will explore what Manipulating Dna Answer Key is, why Manipulating Dna Answer Key is vital, and how to effectively learn about Manipulating Dna Answer Key.
  3. In chapter 2, the author will delve into the foundational concepts of Manipulating Dna Answer Key. The second chapter will elucidate the essential principles that must be understood to grasp Manipulating Dna Answer Key in its entirety.
  4. In chapter 3, this book will examine the practical applications of Manipulating Dna Answer Key in daily life. This chapter will showcase real-world examples of how Manipulating Dna Answer Key can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Manipulating Dna Answer Key in specific contexts. The fourth chapter will explore how Manipulating Dna Answer Key is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Manipulating Dna Answer Key. This chapter will summarize the key points that have been discussed throughout the book.
- The 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 Manipulating Dna Answer Key.

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