

## Chapter 9 Power Notes Answer Key

### Section 9.1

*Collected from*—bacteria

*Used for*—cutting DNA

*Cut DNA at*—specific nucleotide sequences (restriction sites)

*Can leave*—blunt ends (straight cuts) or sticky ends (staggered cuts with free nucleotides)

1. Restriction sites

*Gel electrophoresis*—separates DNA fragments based on size; smaller fragments travel farther in a certain amount of time than larger fragments

*Restriction maps*—fragment sizes between restriction sites; do not show anything about genes or DNA sequence

### Section 9.2

*PCR*—technique that quickly copies a desired segment of DNA

1. temperature increased to separate DNA

2. temperature lowered and primers bind to each strand, bracketing the desired segment of DNA

3. temperature increased; polymerases make new strands of DNA

*PCR amplifies*—every cycle doubles the number of strands of DNA

### Section 9.3

#### DNA fingerprinting

*Based on*—noncoding regions of DNA; number of nucleotide repeats in particular parts of the genome; a person's molecular identity; a type of restriction map using gel electrophoresis

Person B—fragments at 2, 3, 4, 5

**DNA fingerprints and probability**—by investigating several parts of the genome, it is very unlikely that two people would randomly share identical numbers of repeats (multiplying each separate probability to find the total probability of a match)

**Uses**—criminal cases; immigration; paternity; studying biodiversity; identifying species; tracking GM crops

### Section 9.4

*Cloning in nature*—binary fission, some plants; some simple animals

*Mammals*—nuclear transfer; low success rate; Dolly the sheep first clone of adult mammal

*Potential and controversy*—could be used in medical treatments; save endangered species; bring back extinct species; low success rate; decrease biodiversity

*Genetic engineering*—changing an organism's DNA to give the organism new traits

*Recombinant DNA*—DNA with genes from more than one organism; genes often inserted into bacterial plasmids

*Transgenic bacteria*—have plasmid with recombinant DNA; used to make human insulin

*Transgenic plants*—bacteria with recombinant DNA infect plants; used to make crops

# Chapter 9 Power Notes Answer Key

**Robert D. Shepherd**



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## **Table of Contents Chapter 9 Power Notes Answer Key**

1. Understanding the eBook Chapter 9 Power Notes Answer Key
  - The Rise of Digital Reading Chapter 9 Power Notes Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 9 Power Notes 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 9 Power Notes Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 9 Power Notes Answer Key
  - Personalized Recommendations
  - Chapter 9 Power Notes Answer Key User Reviews and Ratings
  - Chapter 9 Power Notes Answer Key and Bestseller Lists
5. Accessing Chapter 9 Power Notes Answer Key Free and Paid eBooks
  - Chapter 9 Power Notes Answer Key Public Domain eBooks
  - Chapter 9 Power Notes Answer Key eBook Subscription Services
  - Chapter 9 Power Notes Answer Key Budget-Friendly Options

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