

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

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Table of Contents Biology Chapter 30 Power Notes Answer Key Abnews

1. Understanding the eBook Biology Chapter 30 Power Notes Answer Key Abnews
 - The Rise of Digital Reading Biology Chapter 30 Power Notes Answer Key Abnews
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Chapter 30 Power Notes Answer Key Abnews
 - 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 Biology Chapter 30 Power Notes Answer Key Abnews
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Chapter 30 Power Notes Answer Key Abnews
 - Personalized Recommendations
 - Biology Chapter 30 Power Notes Answer Key Abnews User Reviews and Ratings
 - Biology Chapter 30 Power Notes Answer Key Abnews and Bestseller Lists
5. Accessing Biology Chapter 30 Power Notes Answer Key Abnews Free and Paid eBooks
 - Biology Chapter 30 Power Notes Answer Key Abnews Public Domain eBooks
 - Biology Chapter 30 Power Notes Answer Key Abnews eBook Subscription Services
 - Biology Chapter 30 Power Notes Answer Key Abnews Budget-Friendly Options

6. Navigating Biology Chapter 30 Power Notes Answer Key Abnews eBook Formats
 - ePub, PDF, MOBI, and More
 - Biology Chapter 30 Power Notes Answer Key Abnews Compatibility with Devices
 - Biology Chapter 30 Power Notes Answer Key Abnews Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology Chapter 30 Power Notes Answer Key Abnews
 - Highlighting and Note-Taking Biology Chapter 30 Power Notes Answer Key Abnews
 - Interactive Elements Biology Chapter 30 Power Notes Answer Key Abnews
8. Staying Engaged with Biology Chapter 30 Power Notes Answer Key Abnews
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology Chapter 30 Power Notes Answer Key Abnews
9. Balancing eBooks and Physical Books Biology Chapter 30 Power Notes Answer Key Abnews
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology Chapter 30 Power Notes Answer Key Abnews
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Biology Chapter 30 Power Notes Answer Key Abnews
 - Setting Reading Goals Biology Chapter 30 Power Notes Answer Key Abnews
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Biology Chapter 30 Power Notes Answer Key Abnews
 - Fact-Checking eBook Content of Biology Chapter 30 Power Notes Answer Key Abnews
 - 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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