

## 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

**Thirumalaisamy P.  
Velavancorresponding**



**Chapter 9 Power Notes Answer Key:**

## Reviewing **Chapter 9 Power Notes Answer Key**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Chapter 9 Power Notes Answer Key**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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