

## 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

**Liyong Dong**



**Chapter 9 Power Notes Answer Key:**

Chapter 9 Power Notes Answer Key: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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