

## 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

# Power Notes Answer Key Biology Chapter 11

**Liying Dong**



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