

## 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

**Thomas Nelson**



## Chapter 9 Power Notes Answer Key:

**Notes, Critical, Explanatory, and Practical, on the Book of the Prophet Isaiah ... By Rev. Albert Barnes ... Edited and Carefully Corrected by Rev. Ingram Cobbin**, 1850     The Holy Bible According to the Authorized Version (a.D. 1611): Romans to Philemon. 1892, 1892     **Elsevier's Case Study Practice Review for the Next Generation NCLEX (NGN) - E-Book** Kara Sealock, 2025-05-22 Use case studies and practice exams to prepare for the Next Generation NCLEX RN Designed for nursing students Elsevier's Case Study Practice Review for the Next Generation NCLEX NGN provides step by step advice and concrete methods to solving case studies and targeted questions that help you build critical thinking and clinical judgement skills A combined total of 130 stand alone and unfolding case studies are offered in the book and its Evolve website with rationales for correct and incorrect answers the clinical judgement skill being tested and Elsevier text references for further learning Written by noted educator Kara Sealock this review ensures that you are ready for success on the NGN and in your nursing career Review content reflects the new 2023 Next Generation NCLEX NGN test plan and its emphasis on clinical judgement cognitive skills Case studies for the NGN prepare you for the biggest change to the NCLEX RN test plan to date the addition of questions measuring clinical judgement skills Two in text practice exams include 100 stand alone and unfolding case studies for the NGN giving you plenty of testing practice with critical thinking and clinical judgement skills Case studies on the Evolve website include all case studies from the book in interactive format plus 30 additional case studies creating a virtually unlimited number of practice sessions or tests in Study Mode or Exam Mode In depth rationales are provided for both correct and incorrect answers to each question Answer keys for each practice test

**The Holy Bible According to the Authorized Version (A.D. 1611)** Frederic Charles Cook, 1881     The Holy Bible, According to the Authorized Version (A.D. 1611): Romans-Philemon Frederic Charles Cook, 1881     The Holy Bible Frederic Charles Cook, 1881     **Study Skills for Learning Power** Regina Hellyer, Carol Robinson, Phyllis Sherwood, 1998 Study Skills for Learning Power offers conversational question generated approach that empowers students to direct their own learning and study habits and to integrate information more effectively Students learn the basics of test taking note taking textbook reading and critical thinking while also focusing on self improvement techniques for time and stress management goal setting and problem solving     The Holy Bible According to the Authorized Version (A.D. 1611): Romans to Philomen Frederic Charles Cook, 1881     P.O.W.E.R. Learning Robert Stephen Feldman, Sheila Chick, 2003     Applied Mechanics Reviews, 1996     **The World of Matter-energy** Paul Franz Brandwein, 1964     **Resources in Education**, 1995     **The Energy Journal**, 2007     **Wind Energy Explained** J. F. Manwell, J. G. McGowan, Anthony L. Rogers, 2002-06-21 This textbook is intended to provide an introduction to the cross disciplinary field of wind engineering It includes end of chapter tutorial sections solutions manual available and combines both academic and industrial experience     **Power Writing**, 2002-02 Power Writing developed for Pre GED level learners teaches basic writing in the context of real life and

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