

**Chapter 13****Genetic Engineering****Section 13–1 Changing the Living World** (pages 319–321)

*This section explains how people use selective breeding and mutations to develop organisms with desirable characteristics.*

**Selective Breeding** (pages 319–320)

1. What is meant by selective breeding? Only animals and plants with desired characteristics are allowed to produce the next generation.
2. Circle the letter of each organism that has been produced by selective breeding.  
 a. horses       b. dogs       c. cats       d. potatoes
3. Who was Luther Burbank? He was a selective plant breeder who developed disease-resistant potatoes to help fight potato blight in Ireland, as well as over 800 varieties of other plants.
4. Complete the compare-and-contrast table of types of selective breeding.

**SELECTIVE BREEDING**

Type	Description	Examples
Hybridization	Crossing dissimilar individuals to bring together the best of both organisms	Disease-resistant Burbank potato
Inbreeding	The continued breeding of individuals with similar characteristics	Maintaining dog breeds

5. Is the following sentence true or false? Hybrids are often hardier than either of the parents. true
6. What two plant traits did Luther Burbank try to combine in his crosses?
  - a. Disease resistance
  - b. Food-producing capacity
7. Is the following sentence true or false? To maintain the desired characteristics of a line of organisms, breeders often use hybridization. false
8. Most members of a breed are genetically similar.
9. What are the risks of inbreeding? There is always a chance that a cross between two individuals will bring together two recessive alleles for a genetic defect.

# Section 2 Dna Technology Study Guide Answers

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**NCLEX-RN Review Guide** Cynthia Chernecky, Nancy Stark, Lori Schumacher, 2008 A useful review tool in preparing for the NCLEX RN examination this guide is based on the latest NCLEX RN test plan including alternate item formats More than 2 000 practice questions are included in the book CD ROM package along with test taking strategies rationales and top 10 challenge questions to test your knowledge in each subject area *Study Guide and Full Solutions Manual* Susan McMurry, John McMurry, 2002-08 Contains a brief overview of every chapter review of skills self tests and the answers and detailed solutions to all end of chapter problems in the textbook *Study Guide and Partial Solutions Manual, Fundamentals of General, Organic, and Biological Chemistry* Susan McMurry, 1996 This internationally acclaimed detective series is just the thing for lovers of those Number One Ladies looking for a darker more realistic view of Botswana Sue Baker Publishing News

**Student Study Guide for Campbell's Biology Second Edition** Martha R. Taylor, 1990 Study Guide for 31840 - Biology-First Edition Neil A. Campbell, 1987 Teacher's Wraparound Edition: Two Biology Everyday Experience Albert Kaskel, 1994-04-19 **Study Guide** Johnson, Judith Stewart, 2000-12 Designed specifically for the one semester human biology course Contains traditional chapter review and self testing activities Te HS&T a Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004-02 Prentice Hall Exploring Life Science Anthea Maton, 1997 *Study Guide to Accompany Asking about Life [by] Tobin & Dusheck* Lori K. Garrett, Tobin, Jennie Dusheck, 1998 This exciting first edition text is appropriate for the one or two semester non majors or mixed majors non majors course Tobin and Dusheck s Asking About Life has a unique approach to biology that emphasizes questions experimentation and principles of biology The first edition recently won the Texty Award from the Text and Academic Authors Association in the College Life Sciences category *Biological Science* Biological Sciences Curriculum Study, 1996 **Student Study Guide for Biology [by] Campbell/Reece/Mitchell** Martha R. Taylor, 1999 Manual for Research Ethics Committees Sue Eckstein, 2003-02-20 The sixth edition of the Manual for Research Ethics Committees was first published in 2003 and is a unique compilation of legal and ethical guidance which will prove useful for members of research ethics committees researchers involved in research with humans members of the pharmaceutical industry and students of law medicine ethics and philosophy **Student Study Guide and Solutions Manual to Accompany General, Organic, and Biochemistry** Katherine J. Denniston, Denniston Katherine, 2006 **Prentice Hall Science** Anthea Maton, Jill D. Wright, Jean Hopkins, Susan Johnson, David Lahart, Maryanna Quon Warner, 1994 *Student Study Guide for Biology [by] Campbell/Reece* Martha R. Taylor, 2002 Marty Taylor Cornell University Provides a concept map of each chapter chapter summaries a variety of interactive questions and chapter tests **Invitation to Biology** Helena Curtis, N. Sue Barnes, 1994-02-15 This clearly written accurate and well illustrated introduction to biology seamlessly integrates the theme of evolution while offering expanded up to date coverage of genetic engineering the immune response embryological development and ecological

concerns *The American System of Criminal Justice* George F. Cole, Christopher E. Smith, 2004 This classic best seller commonly referred to as *The Eagle* encourages students to become better citizens to determine what Justice means in our society and what role individuals play This text examines criminal justice as an interdisciplinary endeavor sharing elements from criminology sociology law history psychology and political science It challenges students to balance the mechanics and system of criminal justice with the human side of the story Cole and Smith present an exciting and relevant introduction to the field of criminal justice The text combines solid research and intellectual rigor in an approachable manner with detailed attention to current and compelling events to help students appreciate the many aspects of the discipline and how they can participate in the system as citizens of the United States Biology Glencoe/McGraw-Hill, 1994-07 Resources in Education , 1997

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