

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.

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Table of Contents Dna Technology Section Study Guide Answers

1. Understanding the eBook Dna Technology Section Study Guide Answers
 - The Rise of Digital Reading Dna Technology Section Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Dna Technology Section Study Guide Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Dna Technology Section Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Dna Technology Section Study Guide Answers
 - Personalized Recommendations
 - Dna Technology Section Study Guide Answers User Reviews and Ratings
 - Dna Technology Section Study Guide Answers and Bestseller Lists
5. Accessing Dna Technology Section Study Guide Answers Free and Paid eBooks
 - Dna Technology Section Study Guide Answers Public Domain eBooks
 - Dna Technology Section Study Guide Answers eBook Subscription Services
 - Dna Technology Section Study Guide Answers Budget-Friendly Options
6. Navigating Dna Technology Section Study Guide Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Dna Technology Section Study Guide Answers Compatibility with Devices
 - Dna Technology Section Study Guide Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Dna Technology Section Study Guide Answers
 - Highlighting and Note-Taking Dna Technology Section Study Guide Answers
 - Interactive Elements Dna Technology Section Study Guide Answers

8. Staying Engaged with Dna Technology Section Study Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Dna Technology Section Study Guide Answers
9. Balancing eBooks and Physical Books Dna Technology Section Study Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Dna Technology Section Study Guide Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Dna Technology Section Study Guide Answers
 - Setting Reading Goals Dna Technology Section Study Guide Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Dna Technology Section Study Guide Answers
 - Fact-Checking eBook Content of Dna Technology Section Study Guide Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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