

7.3 – Artificial Selection

Explains how humans can select, identifying with, a population.

Through artificial selection, humans affect variation in other species.

- **artificial selection** – humans selectively breed species with desirable traits
 - growing drought – resistant crops or other animals (dog breeds)
 - can lead to more or less genetic diversity
 - monocropping and crazy dog breeds

Explains how relationship between organisms in two environments and environment changes in two dimensions.

Convergent evolution occurs when similar or selective pressures result in similar phenotypic adaptations in different populations or species.

- **convergent evolution** – similar environmental conditions result in similar traits in different populations or species over time
 - can occur in distant or unrelated species
 - **analogous structures** – features of different species that have a similar function, but not similar structure
 - streamlined bodies in marine vertebrates (fish/reptiles)
 - strong, sharp claws, long snouts, stick tongues to catch insects in echidnas, anteaters, pangolins; bird and insect wings

7.4 – Population Genetics

Explains how random occurrences affect the genetic makeup of a population.

Evolution is also driven by random occurrences—

a. Mutation is a random process that contributes to evolution.

- **mutation** – random alteration in a DNA sequence, that contributes to changes in a population's genetic makeup over time, creating genetic variation, the new genotype can provide new phenotypes

b. Genetic drift is a nonselective process occurring in small populations—

- **genetic drift** – random change in a population's allele frequency
 - generally affects smaller populations more
 - increased death and low reproduction rates
 - natural catastrophes

i. Bottlenecks—

- **bottleneck effect** – large, diverse population reducing into a small one

Bio Unit 7 Study Guide 43 Answers

Mary Wuerth



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Table of Contents **Bio Unit 7 Study Guide 43 Answers**

1. Understanding the eBook Bio Unit 7 Study Guide 43 Answers
 - The Rise of Digital Reading Bio Unit 7 Study Guide 43 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Bio Unit 7 Study Guide 43 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 Bio Unit 7 Study Guide 43 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Bio Unit 7 Study Guide 43 Answers
 - Personalized Recommendations
 - Bio Unit 7 Study Guide 43 Answers User Reviews and Ratings

- Bio Unit 7 Study Guide 43 Answers and Bestseller Lists
- 5. Accessing Bio Unit 7 Study Guide 43 Answers Free and Paid eBooks
 - Bio Unit 7 Study Guide 43 Answers Public Domain eBooks
 - Bio Unit 7 Study Guide 43 Answers eBook Subscription Services
 - Bio Unit 7 Study Guide 43 Answers Budget-Friendly Options
- 6. Navigating Bio Unit 7 Study Guide 43 Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Bio Unit 7 Study Guide 43 Answers Compatibility with Devices
 - Bio Unit 7 Study Guide 43 Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Bio Unit 7 Study Guide 43 Answers
 - Highlighting and Note-Taking Bio Unit 7 Study Guide 43 Answers
 - Interactive Elements Bio Unit 7 Study Guide 43 Answers
- 8. Staying Engaged with Bio Unit 7 Study Guide 43 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Bio Unit 7 Study Guide 43 Answers
- 9. Balancing eBooks and Physical Books Bio Unit 7 Study Guide 43 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Bio Unit 7 Study Guide 43 Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Bio Unit 7 Study Guide 43 Answers
 - Setting Reading Goals Bio Unit 7 Study Guide 43 Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Bio Unit 7 Study Guide 43 Answers
 - Fact-Checking eBook Content of Bio Unit 7 Study Guide 43 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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