

AP Biology Unit #7 – Evolution
STUDY GUIDE

1. Explain how each of the following relate to Natural Selection:

Genetic Diversity – Alters gene activity or protein function that can introduce different traits in an organism, with that being said, if a trait is advantageous for the individual to survive and reproduce, the genetic variation is more likely to be passed to the next generation.

Overproduction of offspring – When living organisms produce more offspring than they can survive. With that being said, it is a driving force that can lead to adaptation and variation in a species.

Competition – The direct or indirect interaction of organisms that leads to a change in fitness when the organisms share the same resource. With that being said, competition is a basic factor in natural selection.

Reproduction – The production of offspring. With that being said, genetic mutations that are beneficial to an individual's survival are passed on through reproduction which results in new generation of organisms that are more likely to survive to reproduce.

2. What is meant by Fitness in Biology? List at least 4 different environmental factors that affect a species "fitness" or survival. Ability to survive AND reproduce.

- Organisms with "better" traits will be able to survive and reproduce more.
- Food is crucial for survival and allowing organisms to reproduce.
- Competition for a mate allowed the organisms to reproduce and survive.
- Organisms being in the right temperature allows them to survive and reproduce.

3. Why is "survival of the fittest" an incomplete description of natural selection?

Survival of the fittest is the phrase that suggests that organisms that are best adjusted to their environment are the most successful in surviving and reproducing. This doesn't include how important reproduction is and without and reproduction, the population will not allow organisms to even adjust and be successful in surviving and reproducing.

4. Why is it that an individual can not evolve; only populations can evolve?

An individual can not evolve; only populations can evolve because it involves the change in gene pools over time. With that being said, an individual cannot change it's genes. However, populations can since a shift can be seen in gene frequencies with generations showing evolution.

5. Explain how each of the following are used to support evolutionary relationships among species:

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Michael Hoelscher



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Table of Contents Biology Guide 38

1. Understanding the eBook Biology Guide 38
 - The Rise of Digital Reading Biology Guide 38
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Guide 38
 - 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 Biology Guide 38
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Guide 38
 - Personalized Recommendations
 - Biology Guide 38 User Reviews and Ratings
 - Biology Guide 38 and Bestseller Lists

-
5. Accessing Biology Guide 38 Free and Paid eBooks
 - Biology Guide 38 Public Domain eBooks
 - Biology Guide 38 eBook Subscription Services
 - Biology Guide 38 Budget-Friendly Options
 6. Navigating Biology Guide 38 eBook Formats
 - ePub, PDF, MOBI, and More
 - Biology Guide 38 Compatibility with Devices
 - Biology Guide 38 Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology Guide 38
 - Highlighting and Note-Taking Biology Guide 38
 - Interactive Elements Biology Guide 38
 8. Staying Engaged with Biology Guide 38
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology Guide 38
 9. Balancing eBooks and Physical Books Biology Guide 38
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology Guide 38
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Biology Guide 38
 - Setting Reading Goals Biology Guide 38
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Biology Guide 38
 - Fact-Checking eBook Content of Biology Guide 38
 - 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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