Evolution: Mutation and Selection

Answer Key

Vocabulary: adaptation, allele, chromosome, evolution, fitness, gene, genotype, mutation, natural selection, phenotype, trait

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]

 Imagine a white lizard and a brown lizard sitting on a brown rock. A hawk is circling overhead hunting for its next meal. Which lizard do you think the hawk would most likely try to catch? Explain your choice.

Answers will vary. [The hawk will most likely try to catch the white lizard because it is not as well camouflaged as the brown lizard.]

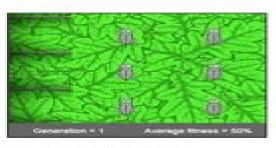
Now imagine that the same two lizards were sitting on a dune of white sand. Which lizard do you think the hawk would then most likely try to catch? Why?

Answers will vary. [The hawk will most likely try to catch the brown lizard in this case because it is not as well camouflaged as the white lizard.]

Gizmo Warm-up

How long could a parrot survive in Antarctica? It would probably not survive long. Parrots do not have adaptations—or helpful characteristics—to survive icy cold weather. Because of this, a parrot is not fit for Antarctica. Fitness describes how well an organism can survive and reproduce in an environment.

In the Evolution: Mutation and Selection Gizmo™, you will see how a species' fitness can change over time as it becomes better adapted to its environment.



- On the SIMULATION pane, what is the Average fitness of the population? 50%
- 2. On the CONTROLS pane, experiment with the Background color sliders.
 - A. Which background color results in the highest fitness? R = 255, G = 255, B = 255
 - B. Which background color results in the lowest fitness? R = 0, G = 0, B = 0

Gizmo Answers Mutation And Selection

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Table of Contents Gizmo Answers Mutation And Selection

- 1. Understanding the eBook Gizmo Answers Mutation And Selection
 - The Rise of Digital Reading Gizmo Answers Mutation And Selection
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Gizmo Answers Mutation And Selection
 - 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 Gizmo Answers Mutation And Selection
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Gizmo Answers Mutation And Selection
 - Personalized Recommendations
 - Gizmo Answers Mutation And Selection User Reviews and Ratings
 - Gizmo Answers Mutation And Selection and Bestseller Lists

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

Gizmo Answers Mutation And Selection Introduction

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