

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%**
- On the CONTROLS pane, experiment with the **Background color** sliders.
 - Which background color results in the highest fitness? **$R = 255, G = 255, B = 255$**
 - Which background color results in the lowest fitness? **$R = 0, G = 0, B = 0$**

Explore Learning Gizmo Answer Key Mutation And Selection

AW Rasmussen



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Table of Contents Explore Learning Gizmo Answer Key Mutation And Selection

1. Understanding the eBook Explore Learning Gizmo Answer Key Mutation And Selection
 - The Rise of Digital Reading Explore Learning Gizmo Answer Key Mutation And Selection
 - Advantages of eBooks Over Traditional Books
2. Identifying Explore Learning Gizmo Answer Key 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 Explore Learning Gizmo Answer Key Mutation And Selection
 - User-Friendly Interface
4. Exploring eBook Recommendations from Explore Learning Gizmo Answer Key Mutation And Selection
 - Personalized Recommendations
 - Explore Learning Gizmo Answer Key Mutation And Selection User Reviews and Ratings
 - Explore Learning Gizmo Answer Key Mutation And Selection and Bestseller Lists
5. Accessing Explore Learning Gizmo Answer Key Mutation And Selection Free and Paid eBooks

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

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