

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.]

1. 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.]

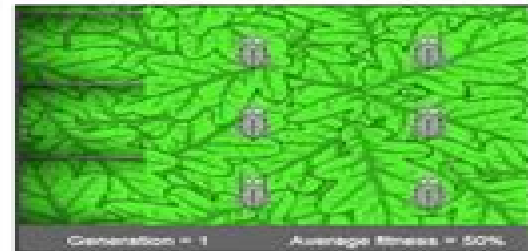
2. Now imagine that the same two lizards were sitting on a dune of white sand. Which lizard do you think the hawk would then most likely try to catch? Why?

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.



1. 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? **$R = 0$, $G = 0$, $B = 0$**

Evolution Mutation And Selection Gizmo Answer Key

BM King



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Table of Contents Evolution Mutation And Selection Gizmo Answer Key

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

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