



Student Exploration: Evolution: Mutation and Selection

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes. Complete the lab Assessment

Define Each Vocabulary Word:

adaptation-the biological mechanism by which organisms adjust to new environments or to changes in their current environment

allele-a variant form of a gene

allele sequence-the DNA sequences controlling our traits, are usually found in two copies in eukaryotic genomes

chromosome-a structure found inside the nucleus of a cell

evolution- the change in the characteristics of a species over several generations and relies on the process of natural selection

fitness-being able to live long enough to reproduce and keep the population or species alive

gene-the basic physical and functional unit of heredity

genotype- the genetic makeup of an organism

mutation-occurs when a DNA gene is damaged or changed in such a way as to alter the genetic message carried by that gene

natural selection-the process through which populations of living organisms adapt and change

phenotype trait- the observable physical properties of an organism

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

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.

The white lizard because it is more noticeable and sticks out more.

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?

The brown lizard because it doesn't blend in with the white sand.

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

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Robert R. Redfield



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Table of Contents Student Exploration Evolution Natural Selection Answer Key

1. Understanding the eBook Student Exploration Evolution Natural Selection Answer Key
 - The Rise of Digital Reading Student Exploration Evolution Natural Selection Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Student Exploration Evolution Natural Selection 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 a Student Exploration Evolution Natural Selection Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Student Exploration Evolution Natural Selection Answer Key
 - Personalized Recommendations
 - Student Exploration Evolution Natural Selection Answer Key User Reviews and Ratings

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