



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

Elgizmos Student Exploration Evolution Key

Rose Army



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Evolution Education Re-considered Ute Harms, Michael J. Reiss, 2019-07-16 This collection presents research based interventions using existing knowledge to produce new pedagogies to teach evolution to learners more successfully whether in schools or elsewhere Success here is measured as cognitive gains as acceptance of evolution or an increased desire to continue to learn about it Aside from introductory and concluding chapters by the editors each chapter consists of a research based intervention intended to enable evolution to be taught successfully all these interventions have been researched and evaluated by the chapters authors and the findings are presented along with discussions of the implications The result is an important compendium of studies from around the world conducted both inside and outside of school The volume is unique and provides an essential reference point and platform for future work for the foreseeable future **Mechanix Illustrated**, 1982 **Forthcoming Books** Rose Arny, 1998

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Table of Contents Elgizmos Student Exploration Evolution Key

1. Understanding the eBook Elgizmos Student Exploration Evolution Key
 - The Rise of Digital Reading Elgizmos Student Exploration Evolution Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Elgizmos Student Exploration Evolution 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 Elgizmos Student Exploration Evolution Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Elgizmos Student Exploration Evolution Key
 - Personalized Recommendations
 - Elgizmos Student Exploration Evolution Key User Reviews and Ratings
 - Elgizmos Student Exploration Evolution Key and Bestseller Lists
5. Accessing Elgizmos Student Exploration Evolution Key Free and Paid eBooks
 - Elgizmos Student Exploration Evolution Key Public Domain eBooks

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