



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

Wolfgang Guggemos



Elgizmos Student Exploration Evolution Key:

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

This book delves into Elgizmos Student Exploration Evolution Key. Elgizmos Student Exploration Evolution Key is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Elgizmos Student Exploration Evolution Key, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Elgizmos Student Exploration Evolution Key
 - Chapter 2: Essential Elements of Elgizmos Student Exploration Evolution Key
 - Chapter 3: Elgizmos Student Exploration Evolution Key in Everyday Life
 - Chapter 4: Elgizmos Student Exploration Evolution Key in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Elgizmos Student Exploration Evolution Key. This chapter will explore what Elgizmos Student Exploration Evolution Key is, why Elgizmos Student Exploration Evolution Key is vital, and how to effectively learn about Elgizmos Student Exploration Evolution Key.
 3. In chapter 2, the author will delve into the foundational concepts of Elgizmos Student Exploration Evolution Key. The second chapter will elucidate the essential principles that must be understood to grasp Elgizmos Student Exploration Evolution Key in its entirety.
 4. In chapter 3, this book will examine the practical applications of Elgizmos Student Exploration Evolution Key in daily life. The third chapter will showcase real-world examples of how Elgizmos Student Exploration Evolution Key can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Elgizmos Student Exploration Evolution Key in specific contexts. This chapter will explore how Elgizmos Student Exploration Evolution Key is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Elgizmos Student Exploration Evolution Key. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Elgizmos Student Exploration Evolution Key.

<https://staging.conocer.cide.edu/files/uploaded-files/fetch.php/friday%20night%20lights%20season%202%20episode%20guide.pdf>

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Elgizmos Student Exploration Evolution Key Introduction

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