



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

Student Exploration Evolution Natural Selection Answer Key

M Tight



Student Exploration Evolution Natural Selection Answer Key:

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

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

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