

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.]

- 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.]

- 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.



- On the SIMULATION pane, what is the **Average fitness** of the population? **50%**
- On the CONTROLS pane, experiment with the **Background color** sliders.
 - Which background color results in the highest fitness? **$R = 255, G = 255, B = 255$**
 - Which background color results in the lowest fitness? **$R = 0, G = 0, B = 0$**

Gizmo Evolution Mutation And Selection Answers

Huangqi Zhang



Gizmo Evolution Mutation And Selection Answers:

The book delves into Gizmo Evolution Mutation And Selection Answers. Gizmo Evolution Mutation And Selection Answers is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Gizmo Evolution Mutation And Selection Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Gizmo Evolution Mutation And Selection Answers
 - Chapter 2: Essential Elements of Gizmo Evolution Mutation And Selection Answers
 - Chapter 3: Gizmo Evolution Mutation And Selection Answers in Everyday Life
 - Chapter 4: Gizmo Evolution Mutation And Selection Answers in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Gizmo Evolution Mutation And Selection Answers. This chapter will explore what Gizmo Evolution Mutation And Selection Answers is, why Gizmo Evolution Mutation And Selection Answers is vital, and how to effectively learn about Gizmo Evolution Mutation And Selection Answers.
 3. In chapter 2, this book will delve into the foundational concepts of Gizmo Evolution Mutation And Selection Answers. This chapter will elucidate the essential principles that must be understood to grasp Gizmo Evolution Mutation And Selection Answers in its entirety.
 4. In chapter 3, the author will examine the practical applications of Gizmo Evolution Mutation And Selection Answers in daily life. This chapter will showcase real-world examples of how Gizmo Evolution Mutation And Selection Answers can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Gizmo Evolution Mutation And Selection Answers in specific contexts. The fourth chapter will explore how Gizmo Evolution Mutation And Selection Answers is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Gizmo Evolution Mutation And Selection Answers. 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. It is highly recommended for anyone seeking to gain a comprehensive understanding of Gizmo Evolution Mutation And Selection Answers.

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Gizmo Evolution Mutation And Selection Answers Introduction

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