

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Student Exploration: Evolution: Mutation and Selection

**Vocabulary:** adaptation, allele, chromosome, evolution, fitness, gene, genotype, mutation, natural selection, phenotype, trait

**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.

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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?

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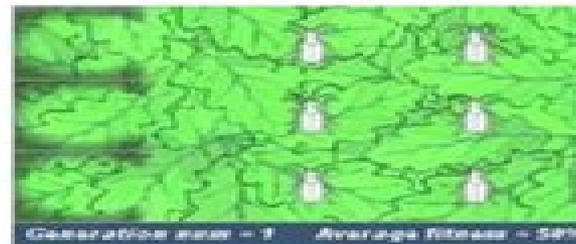


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### Gizmo Warm-up

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? \_\_\_\_\_
2. On the CONTROLS pane, experiment with the **Background color** sliders.
  - A. Which background color results in the highest fitness? \_\_\_\_\_
  - B. Which background color results in the lowest fitness? \_\_\_\_\_

# Genetic Engineering Study Guide Answer Key

**M Carnoy**



**Genetic Engineering Study Guide Answer Key:**

## Whispering the Techniques of Language: An Emotional Quest through **Genetic Engineering Study Guide Answer Key**

In a digitally-driven earth where monitors reign supreme and quick transmission drowns out the subtleties of language, the profound techniques and mental nuances concealed within words frequently get unheard. However, situated within the pages of **Genetic Engineering Study Guide Answer Key** a interesting literary value blinking with fresh emotions, lies a fantastic journey waiting to be undertaken. Written by a talented wordsmith, that charming opus attracts visitors on an introspective trip, lightly unraveling the veiled truths and profound influence resonating within the very material of every word. Within the emotional depths with this poignant review, we will embark upon a heartfelt exploration of the book is primary styles, dissect their interesting writing type, and yield to the strong resonance it evokes deep within the recesses of readers hearts.

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