



Name:

Date:

3/23/22

## 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.

**Vocabulary:** adaptation, allele, allele sequence, 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.

The hawk would most likely catch the white lizard as it is easier to see.

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 would be caught because the white lizard blends in with the 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?

The average fitness is 50%.

2. On the CONTROLS pane, experiment with the **Background** color sliders.

A. Which background color results in the highest fitness?

White

B. Which background color results in the lowest fitness?

Black

# Answers To Evolution Gizmo Explore Learning

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**Answers To Evolution Gizmo Explore Learning:**

Uncover the mysteries within Crafted by is enigmatic creation, Embark on a Mystery with **Answers To Evolution Gizmo Explore Learning** . This downloadable ebook, shrouded in suspense, is available in a PDF format ( PDF Size: \*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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