



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

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

## Student Exploration: Evolution: Mutation and Selection

**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 white lizard, as it would be easier both to see and to track from high up in the sky.**

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 for the same reasons.**

### 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? **0.5**
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 For The Evolution Of Mutation Test For A Gizmo

**Lei Huang**



## **Answers For The Evolution Of Mutation Test For A Gizmo:**

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