



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

Yi-Tong Ma



Answers For The Evolution Of Mutation Test For A Gizmo:

Whispering the Techniques of Language: An Psychological Quest through **Answers For The Evolution Of Mutation Test For A Gizmo**

In a digitally-driven world where displays reign supreme and quick conversation drowns out the subtleties of language, the profound techniques and mental subtleties hidden within phrases often go unheard. However, situated within the pages of **Answers For The Evolution Of Mutation Test For A Gizmo** a interesting literary value pulsing with organic feelings, lies an exceptional quest waiting to be undertaken. Composed by a skilled wordsmith, that enchanting opus attracts readers on an introspective trip, softly unraveling the veiled truths and profound impact resonating within the very material of every word. Within the emotional depths of the touching evaluation, we can embark upon a heartfelt exploration of the book is core subjects, dissect its interesting writing fashion, and succumb to the strong resonance it evokes strong within the recesses of readers hearts.

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