



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

Roman Wölfel



Answers For The Evolution Of Mutation Test For A Gizmo:

Unveiling the Power of Verbal Art: An Mental Sojourn through **Answers For The Evolution Of Mutation Test For A Gizmo**

In some sort of inundated with screens and the cacophony of instant transmission, the profound energy and psychological resonance of verbal art usually disappear in to obscurity, eclipsed by the regular onslaught of sound and distractions. However, located within the musical pages of **Answers For The Evolution Of Mutation Test For A Gizmo**, a captivating work of literary elegance that pulses with organic emotions, lies an remarkable journey waiting to be embarked upon. Written by a virtuoso wordsmith, that interesting opus instructions readers on an emotional odyssey, delicately revealing the latent possible and profound impact stuck within the elaborate web of language. Within the heart-wrenching expanse with this evocative analysis, we will embark upon an introspective exploration of the book is key themes, dissect its captivating publishing design, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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