

## Evolution: Mutation and Selection

## Answer Key

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

**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

*[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]*

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.

*Answers will vary. [The hawk will most likely try to catch the white lizard because it is not as well camouflaged as the brown lizard.]*

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?

*Answers will vary. [The hawk will most likely try to catch the brown lizard in this case because it is not as well camouflaged as the white lizard.]*

### 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? **50%**
2. On the CONTROLS pane, experiment with the **Background color** sliders.
  - A. Which background color results in the highest fitness?  **$R = 255$ ,  $G = 255$ ,  $B = 255$**
  - B. Which background color results in the lowest fitness?  **$R = 0$ ,  $G = 0$ ,  $B = 0$**

# Evolution Natural Gizmo Sheet Answers

**Peipei Pang**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

### **Evolution Natural Gizmo Sheet Answers:**

*Road and Track* ,1996-05      PC World ,2000      *Billboard* ,1978-01-14 In its 114th year Billboard remains the world s premier weekly music publication and a diverse digital events brand content and data licensing platform Billboard publishes the most trusted charts and offers unrivaled reporting about the latest music video gaming media digital and mobile entertainment issues and trends      **Billboard** ,1977-11-26 In its 114th year Billboard remains the world s premier weekly music publication and a diverse digital events brand content and data licensing platform Billboard publishes the most trusted charts and offers unrivaled reporting about the latest music video gaming media digital and mobile entertainment issues and trends      *Evolution Natural Selection* Balaji Sampath,Ravishankar,Marimuthu,2004      Evolution by Natural Selection Chauncey Wright,1872

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