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.]

 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.]

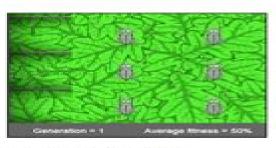
Now imagine that the same two lizards were sitting on a dune of white sand. Which lizard do you think the hawk would then most likely try to catch? Why?

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.



- 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

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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