

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

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Biological Sciences Curriculum Study



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Microbiology Dave Wessner,Christine Dupont,Trevor Charles,Josh Neufeld,2017-08-28 Microbiology 2nd Edition helps to develop a meaningful connection with the material through the incorporation of primary literature applications and examples The text offers an ideal balance between comprehensive in depth coverage of core concepts while employing a narrative style that incorporates many relevant applications and a unique focus on current research and experimentation The book frames information around the three pillars of physiology ecology and genetics which highlights their interconnectedness and helps students see a bigger picture This innovative organization establishes a firm foundation for later work and provides a perspective on real world applications of microbiology *Microbiology, International Adaptation* Dave Wessner,Christine Dupont,Trevor Charles,Josh Neufeld,2022-02-23 Microbiology is a comprehensive textbook that facilitates a thorough understanding of the scope nature and complexity of the science of microscopic organisms It gives a balanced presentation of foundational concepts real world applications and current research and experimentation The text approaches the subject within the context of exploration and experimentation integrating a wealth of classroom tested pedagogical features The material is organized around the three pillars of physiology ecology and genetics helping students appreciate the interconnected and dynamic nature of microbiology and explore the relationship between different types of microbes other organisms and the environment This international adaptation contains up to date coverage of topics including DNA replication and gene expression viral pathogenesis microbial biotechnology adaptive immunity the control of infectious diseases and the microbiology of food and water It also offers integrated coverage of SARS CoV 2 and the impacts of COVID 19 relating it to the importance of an interdisciplinary response to a global pandemic It also focuses on strengthening the organization of the content and updating the end of chapter problems *The Journal of Experimental Biology* ,2007-05

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Nature Sir Norman Lockyer,1904 **Philosophy of Science** Jayant Vishnu Narlikar,Indu Banga,Chhanda Gupta,1992

The Rhodesia Science News ,1975 **Descended from Darwin** Joe Cain,Michael Ruse,2009-01-01 This vol has its origins in a conference held October 22 23 2004 at the Amer Philosophical Society APS Library Phila The main focus was on evolutionary studies in America before during and after the famous synthesis period of the 1930s and 1940s The synthesis period has been the focus of substantial new research and important new thinking This vol brings together 15 specialists to explore these developments and to press further Questions shaping these essays focus on the following broad themes Continuity and breaks across generations Emerging narratives for the period New research opportunities at the APS New ideas from the research front Placing evolutionists in the broader context of biology and Future directions Also includes a thoughtful intro by Michael Ruse Biological Science Biological Sciences Curriculum Study,1996 **Evolution, the**

Master-key Caleb Williams Saleeby,1906 Test Item Folio Paul Leroy Dressel,Clarence Herbert Nelson,1956

Actualité Des Universaux Musicaux Jean-Luc Leroy,2013 **Journal of the National Cancer Institute** ,1993

The United States Catalog ,1906 **The First Genesis** William F. Dankenbring,1979 *Biological Science* Freeman,Scott Freeman,Warren W. Burggren,2002-03 By Warren Burggren University of North Texas Jay Brewster Pepperdine University Laurel Hester South Carolina Governor s School for Science and Mathematics Rather than repeat what is covered in the textbook the Student Study Guide will help students study biology and think like a scientist Introductory chapters on Data Interpretation Looking for Relationships Experimentation and Writing will be illustrated and developed for the student Each text chapter will then be covered with the goal of reinforcing the ideas mentioned in introductory chapters and to tie them to appropriate topics within a chapter **Frontiers of Life** David Baltimore,2002

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