



Name: Angelina Lam

Date:

Student Exploration: Evolution: Mutation and Selection

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

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 is more noticeable and sticks out more. This means the white lizard is more likely to be caught by the hawk because it is easier to spot and doesn't blend in with the environment.

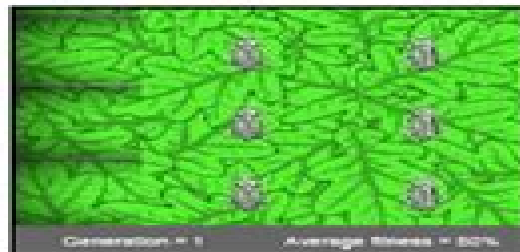
2. Now imagine that the same two lizards were sitting on a dune of white sand. Which lizard do you think the hawk would then most likely try to catch? Why?

The hawk would catch the brown lizard because it doesn't blend in with the sand and sticks out more than 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?

green

Answer Evolution Quia

Stephen Haley Allen



Answer Evolution Quia:

Evolution and the Big Questions David N. Stamos, 2011-09-23 *Evolution and the Big Questions* David N Stamos s
Evolution and the Big Questions delivers what its title promises you get to look at all of the issues such as race and ethics and religion that make the study of evolution so interesting and more than just a science The book is written in a clear and friendly manner and deserves a very wide readership Michael Ruse Florida State University This provocative text considers whether evolutionary explanations can be used to clarify some of life s biggest questions It offers a lively informative and timely look at a wide variety of key issues facing all of us today including questions of race sex gender the nature of language religion ethics knowledge consciousness and ultimately thc meaning of life Some of the questions examined are Did evolution make men and women fundamentally different Is the concept of race merely a social construction Is morality including universal human rights a mass delusion Can religion and evolution really be harmonized Docs evolution render life meaningless Designed for students and anyone with an interest in the relationship between evolutionary heritage and human nature the text takes an interdisciplinary approach and offers direction for further reading and research Each chapter presents a main topic together with discussion of related ideas and arguments from various perspectives Along the way it poses life s biggest questions pulling no punches and presenting a challenge to thinkers on all levels *Involution and Evolution According to the Philosophy of Cycles* Kalpa, 1894 **Evolution and Theology** Ernest Charles Messenger, 1931

A Treatise on Right and Duty, Their Evolution, Definition, Analysis, and Classification According to Jurisprudence, Being a Portion of the Muhammadan Law of Gifts Syed Karamat Husein, 1899 *The Evolution of the Aryan* Rudolf von Jhering, 1897 **The evolution of the Aryan, tr. by A. Drucker** Rudolph J von Ihering, 1897

Evolution and Christianity, papers read by prof. Flower, the bp. of Carlisle and A. L. Moore sir William Henry Flower, 1883 **The Evolution of the Roman Law from Before the Twelve Tables to the Corpus Juris** Charles Sumner Lobingier, 1923 *Thomistic Philosophy in the Face of Evolutionary Fact* Juan Eduardo Carreño Pavez, 2024-06-07 The purpose of this book is to integrate the fact of biological evolution which as such should not be confused with the evolutionary theories and ideologies supposedly based on that fact with the principles and contents of Thomistic philosophy After identifying the main difficulties involved in this endeavor and how they have been addressed by other authors within the Thomistic tradition we present our own thesis We begin by arguing that the diversity of species and varieties of corporeal living beings is consistent with Aquinas thought Next we distinguish between two forms of evolution namely intraspecific and transspecific following the central tenets of Aquinas philosophy the ontological significance and causalities involved in both types of evolution are analyzed We complete this exposition by offering a general overview of evolutionary history in light of the criteria presented with emphasis on anthropogenesis Juan Eduardo Carre o Pavez 1976 holds a PhD in Medical Sciences and a PhD in Philosophy After completing a postdoc at the Center for Medieval Philosophy Georgetown University he

returned to the University of los Andes Chile where he has a position as Associate Professor His research has focused on Thomas Aquinas thought mediaeval philosophy and the dialogue between theology philosophy and science He is the author of several articles and monographs including *Vivere viventibus est esse la vida como perfecci n del ser en la obra de Tom s de Aquino* Eunsa 2020 and *Una reconsideraci n del estatus de la mente animal y humana* Ril Editores 2024 Three Streams in the Evolution of Mankind: the Connectin of the Luciferic-Ahrimanic Impulses with the Christ-Jahve Impulse Rudolf Steiner,1965 **The Evolution of Literary Art in Pre-Hellenic Rome** Earnest Albert Hooton,1911 *Theology and Evolution* Ernest Charles Messenger, Frank Lewis Marsh,1947 **The Evolution of the Civil Law** Charles Sumner Lobingier,1915 **Report of the Proceedings** Church congress,1883 *The Evolution of Governments and Laws* Stephen Haley Allen,1916 **American Ecclesiastical Review** ,1895 **God and Intelligence in Modern Philosophy** Fulton J. Sheen,2009-03-01 **The Dublin Review** Nicholas Patrick Wiseman,1896 The academy ,1877 The Pastor W. J. Wiseman,1882

Answer Evolution Quia Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Answer Evolution Quia**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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