



## 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. Complete the lab Assessment

### **Define Each Vocabulary Word:**

**adaptation**-the biological mechanism by which organisms adjust to new environments or to changes in their current environment

**allele**-a variant form of a gene

**allele sequence**-the DNA sequences controlling our traits, are usually found in two copies in eukaryotic genomes

**chromosome**-a structure found inside the nucleus of a cell

**evolution**- the change in the characteristics of a species over several generations and relies on the process of natural selection

**fitness**-being able to live long enough to reproduce and keep the population or species alive

**gene**-the basic physical and functional unit of heredity

**genotype**- the genetic makeup of an organism

**mutation**-occurs when a DNA gene is damaged or changed in such a way as to alter the genetic message carried by that gene

**natural selection**-the process through which populations of living organisms adapt and change

**phenotype trait**- the observable physical properties of an organism

### **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 because it is more noticeable and sticks out more.

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 because it doesn't blend in with the white sand.

### **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

# Elgizmos Student Exploration Evolution Key

**N Colangelo**



## **Elgizmos Student Exploration Evolution Key:**

*Evolution Education Re-considered* Ute Harms, Michael J. Reiss, 2019-07-16 This collection presents research based interventions using existing knowledge to produce new pedagogies to teach evolution to learners more successfully whether in schools or elsewhere Success here is measured as cognitive gains as acceptance of evolution or an increased desire to continue to learn about it Aside from introductory and concluding chapters by the editors each chapter consists of a research based intervention intended to enable evolution to be taught successfully all these interventions have been researched and evaluated by the chapters authors and the findings are presented along with discussions of the implications The result is an important compendium of studies from around the world conducted both inside and outside of school The volume is unique and provides an essential reference point and platform for future work for the foreseeable future **Introduction to Game**

**Analysis** Clara Fernández-Vara, 2024-06-03 This accessible third edition textbook gives students the tools they need to analyze games using strategies borrowed from textual analysis As game studies has become an established academic field writing about games needs the language and methods that allow authors to reflect the complexity of a game and how it is played in a cultural context This volume provides readers with an overview of the basic building blocks of game analysis examination of context content and distinctive features and formal qualities as well as the vocabulary necessary to talk about the distinguishing characteristics of a game Examples are drawn from a range of games non digital and digital and across history from Pong to Fortnite and the book includes a variety of examples and sample analysis as well as a wealth of additional sources to continue exploring the field of game studies This third edition revision brings the book firmly up to date pulling in new examples and sources and incorporating current key topics in this dynamic field such as artificial intelligence and game streaming Introduction to Game Analysis remains an essential practical tool for students who want to become fluent writers and informed critics of games as well as digital media in general **Los Angeles Magazine** ,2003-11 Los Angeles magazine is a regional magazine of national stature Our combination of award winning feature writing investigative reporting service journalism and design covers the people lifestyle culture entertainment fashion art and architecture and news that define Southern California Started in the spring of 1961 Los Angeles magazine has been addressing the needs and interests of our region for 48 years The magazine continues to be the definitive resource for an affluent population that is intensely interested in a lifestyle that is uniquely Southern Californian Mechanix Illustrated ,1982 Forthcoming Books Rose Army,1998

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### **Elgizmos Student Exploration Evolution Key Introduction**

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