

Date:

Student Exploration: Evolution: Natural and Artificial Selection

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

Vocabulary:

artificial selection
breed
chromosome
evolution
fitness
genotype
mutation
natural selection, phenotype

[Note to teachers and students: This Gizmo was designed as a follow-up to the Evolution: Mutation and Selection Gizmo. We recommend doing that activity before trying this one.]

Prior Knowledge Question (Do this BEFORE using the Gizmo.)



This illustration from an old textbook shows some of the over 150 different dog **breeds** that can be seen around the world today. How do you think all of these different breeds were developed?

They used artificial selection to breed new dog species.

Gizmo Warm-up

Dog breeds and other varieties of domesticated animals were developed through **artificial selection**. Over many generations, breeders selected which animals to mate in order to select for desired traits. The *Evolution: Natural and Artificial Selection* Gizmo allows you to try your hand at breeding insects with a variety of colors. To begin, select the **Artificial selection** option.



1. Drag the 10 insects into the breeding alcoves on the left side of the Gizmo.

A. How many breeding pairs are there?

There are 5 pairs.

Gizmo Natural And Artificial Selection Gizmo

S Ashworth



Gizmo Natural And Artificial Selection Gizmo:

Reviewing **Gizmo Natural And Artificial Selection Gizmo**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Gizmo Natural And Artificial Selection Gizmo**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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Table of Contents Gizmo Natural And Artificial Selection Gizmo

1. Understanding the eBook Gizmo Natural And Artificial Selection Gizmo
 - The Rise of Digital Reading Gizmo Natural And Artificial Selection Gizmo
 - Advantages of eBooks Over Traditional Books
2. Identifying Gizmo Natural And Artificial Selection Gizmo
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Gizmo Natural And Artificial Selection Gizmo
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gizmo Natural And Artificial Selection Gizmo
 - Personalized Recommendations
 - Gizmo Natural And Artificial Selection Gizmo User Reviews and Ratings

- Gizmo Natural And Artificial Selection Gizmo and Bestseller Lists
- 5. Accessing Gizmo Natural And Artificial Selection Gizmo Free and Paid eBooks
 - Gizmo Natural And Artificial Selection Gizmo Public Domain eBooks
 - Gizmo Natural And Artificial Selection Gizmo eBook Subscription Services
 - Gizmo Natural And Artificial Selection Gizmo Budget-Friendly Options
- 6. Navigating Gizmo Natural And Artificial Selection Gizmo eBook Formats
 - ePub, PDF, MOBI, and More
 - Gizmo Natural And Artificial Selection Gizmo Compatibility with Devices
 - Gizmo Natural And Artificial Selection Gizmo Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gizmo Natural And Artificial Selection Gizmo
 - Highlighting and Note-Taking Gizmo Natural And Artificial Selection Gizmo
 - Interactive Elements Gizmo Natural And Artificial Selection Gizmo
- 8. Staying Engaged with Gizmo Natural And Artificial Selection Gizmo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gizmo Natural And Artificial Selection Gizmo
- 9. Balancing eBooks and Physical Books Gizmo Natural And Artificial Selection Gizmo
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gizmo Natural And Artificial Selection Gizmo
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Gizmo Natural And Artificial Selection Gizmo
 - Setting Reading Goals Gizmo Natural And Artificial Selection Gizmo
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Gizmo Natural And Artificial Selection Gizmo
 - Fact-Checking eBook Content of Gizmo Natural And Artificial Selection Gizmo
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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