

Name: _____

Date: _____

Student Exploration: Evolution: Natural and Artificial Selection

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?

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.



- Drag the 10 insects into the breeding slopes on the left side of the Gizmo.
 - How many breeding pairs are there? _____
 - How many offspring are produced? _____
- Circled insects have **mutations**, or changes to their DNA. How many of the offspring insects in this generation have mutations? _____

Exploration Natural Selection Answer Key

LM Reder



Exploration Natural Selection Answer Key:

Whispering the Strategies of Language: An Emotional Journey through **Exploration Natural Selection Answer Key**

In a digitally-driven earth where displays reign supreme and quick communication drowns out the subtleties of language, the profound strategies and mental nuances concealed within phrases often get unheard. However, set within the pages of **Exploration Natural Selection Answer Key** a charming literary value pulsing with natural emotions, lies an exceptional journey waiting to be undertaken. Composed by a talented wordsmith, that charming opus invites viewers on an introspective journey, delicately unraveling the veiled truths and profound impact resonating within the very cloth of each word. Within the psychological depths of the emotional review, we can embark upon a heartfelt exploration of the book's primary themes, dissect their fascinating writing style, and succumb to the strong resonance it evokes serious within the recesses of readers' hearts.

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