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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.)

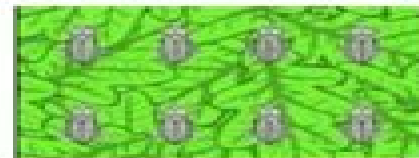


This illustration from an old textbook shows some of the over 150 different dog **breeds** that can be seen around the world today. How do you think all of these different breeds were developed?

They used artificial selection to breed new dog species

Gismo's 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

A Gutmann



Gizmo Natural And Artificial Selection Gizmo:

Delve into the emotional tapestry woven by Crafted by in Dive into the Emotion of **Gizmo Natural And Artificial Selection Gizmo** . This ebook, available for download in a PDF format (*), is more than just words on a page; it's a journey of connection and profound emotion. Immerse yourself in narratives that tug at your heartstrings. Download now to experience the pulse of each page and let your emotions run wild.

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