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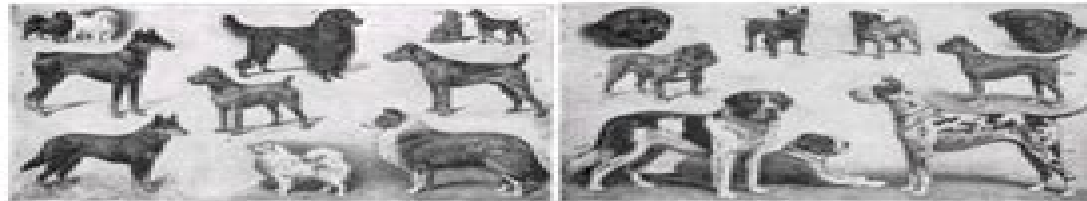
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## Student Exploration: Evolution: Natural and Artificial Selection

**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?

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### 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? \_\_\_\_\_

B. How many offspring are produced? \_\_\_\_\_

2. Circled insects have **mutations**, or changes to their DNA. How many of the offspring insects in this generation have mutations? \_\_\_\_\_

# Explore Learning Natural Selection Gizmo Answer Key

**Brendan G. Carr**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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