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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?

The majority of them were crossbred with various varieties, in order to develop different breeds.

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?

5 pairs

B. How many offspring are produced?

20 children total were born to the five breeding partners.

2. Circled insects have **mutations**, or changes to their DNA. How many of the offspring insects in this generation have mutations? 1 only

Evolution Natural And Artificial Selection Gizmo Answer

Jin-Ying Zhang



Evolution Natural And Artificial Selection Gizmo Answer:

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