


Evolution: Natural and Artificial Selection

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 alcoves 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? _____

Activity B: Artificial selection	<u>Get the Gizmo ready:</u> <ul style="list-style-type: none">• Select Artificial selection.• Set the mutation rate to 2.0.	
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Question: How can a species be changed through artificial selection?

- Set a goal: In this activity, your goal is to develop insects that are any color you would like.

What color do you want your insects to be? _____
- Make a plan: Follow the directions in the Gizmo to produce five generations of insects.
 - How would you describe the process of artificial selection? _____

 - How will mutations be useful in achieving your goal color? _____

 - What strategy will you use to produce insects of your desired color? _____

Natural And Artificial Selection Gizmo Answer Key

John Burdon Sanderson Haldane



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Natural and Artificial Selection in Numbers Lifeliqe,2019 This 135 minute lesson plan covers basic knowledge about natural and artificial selection **A Mathematical Theory of Natural and Artificial Selection** John Burdon Sanderson Haldane,1930

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