


## 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.



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? \_\_\_\_\_

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

1. 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? \_\_\_\_\_
2. Make a plan: Follow the directions in the Gizmo to produce five generations of insects.
  - A. How would you describe the process of artificial selection? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
  - B. How will mutations be useful in achieving your goal color? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
  - C. What strategy will you use to produce insects of your desired color? \_\_\_\_\_  
\_\_\_\_\_

# Student Exploration Evolution Natural And Artificial Selections Answers

**Judd E. Hollander**



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*Biological Evolution*, **Evolutionary Thinking Across Disciplines** Agathe du Crest, Martina Valković, André Ariew, Hugh Desmond, Philippe Huneman, Thomas A. C. Reydon, 2023-06-26 This volume aims to clarify the epistemic potential of applying evolutionary thinking outside biology and provides a survey of the current state of the art in research on relevant topics in the life sciences the philosophy of science and the various areas of evolutionary research outside the life sciences By bringing together chapters by evolutionary biologists systematic biologists philosophers of biology philosophers of social science complex systems modelers psychologists anthropologists economists linguists historians and educators the volume examines evolutionary thinking within and outside the life sciences from a multidisciplinary perspective While the chapters written by biologists and philosophers of science address theoretical aspects of the guiding questions and aims of the volume the chapters written by researchers from the other areas approach them from the perspective of applying evolutionary thinking to non biological phenomena Taken together the chapters in this volume do not only show how evolutionary thinking can be fruitfully applied in various areas of investigation but also highlight numerous open problems unanswered questions and issues on which more clarity is needed As such the volume can serve as a starting point for future research on the application of evolutionary thinking across disciplines

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Claudia Șerban, Tahani Aldosemani, 2024-11-25 The Evolution of Artificial Intelligence in Higher Education is a comprehensive guide to the transformative potential of AI in the higher education landscape focused on the need to nurture technology literacy among educators and learners      Talking with Computers Thomas Dean, 2004-03-15 Lively essays exploring topics from digital logic and machine language to artificial intelligence and searching the World Wide Web

Artificial Intelligence in Education. Posters and Late Breaking Results, Workshops and Tutorials, Industry and Innovation Tracks, Practitioners' and Doctoral Consortium Maria Mercedes Rodrigo, Noburu Matsuda, Alexandra I. Cristea, Vania Dimitrova, 2022-07-25 This two volume set LNAI 13355 and 13356 constitutes the refereed proceedings of the 23rd International Conference on Artificial Intelligence in Education AIED 2022 held in Durham UK in July 2022 The 40 full papers and 40 short papers presented together with 2 keynotes 6 industry papers 12 DC papers 6 Workshop papers 10 Practitioner papers 97 Posters and Late Breaking Results were carefully reviewed and selected from 243 submissions The conference presents topics such as intelligent systems and the cognitive sciences for the improvement and advancement of education the science and engineering of intelligent interactive learning systems The theme for the AIED 2022 conference was AI in Education Bridging the gap between academia business and non profit in preparing future proof generations towards ubiquitous AI

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