

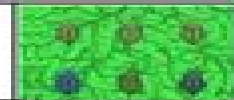
For several generations, the cycle repeats itself and offspring with different genes survive and pass them on to subsequent generations.

Activity B:

Artificial selection

Get the Gizmo ready:

- Select **Artificial selection**.
- Set the **Mutation rate** to 2.0.



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?

It's a process where you decide which genotype instinct to combine with to produce a breed with a specific genotype to your preference.

B. How will mutations be useful in achieving your goal color?

The DNA sequence will change as a result of mutations, allowing the color of the instinct to be altered.

C. What strategy will you use to produce insects of your desired color?

Artificial selection, as I would like to have a certain type right now. But given that getting there will require natural selection, I'll choose that route.

3. **Run Gizmo:** Use the Gizmo to produce insects that match your goal color. (This will take patience!) When you are satisfied, click the **camera** (📷) to take a screenshot. Right-click the image and choose **Copy Image**, and then paste the image below.

Natural And Artificial Selection Gizmo Answers

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Natural And Artificial Selection Gizmo Answers:

The Greatest Invention Silvia Ferrara, 2022-03-01 In this exhilarating celebration of human ingenuity and perseverance published all around the world a trailblazing Italian scholar sifts through our cultural and social behavior in search of the origins of our greatest invention writing The L where a tabletop meets the legs the T between double doors the D of an armchair s oval backrest all around us is an alphabet in things But how did these shapes make it onto the page never mind form complex structures such as this sentence In The Greatest Invention Silvia Ferrara takes a profound look at how and how many times human beings have managed to produce the miracle of written language traveling back and forth in time and all across the globe to Mesopotamia Crete China Egypt Central America Easter Island and beyond With Ferrara as our guide we examine the enigmas of undeciphered scripts including famous cases like the Phaistos Disk and the Voynich Manuscript we touch the knotted colored strings of the Inca quipu we study the turtle shells and ox scapulae that bear the earliest Chinese inscriptions we watch in awe as Sequoyah single handedly invents a script for the Cherokee language and we venture to the cutting edge of decipherment in which high powered laser scanners bring tears to an engineer s eye A code cracking tour around the globe The Greatest Invention chronicles a previously uncharted journey one filled with past flashes of brilliance present day scientific research and a faint fleeting glimpse of writing s future NTC's Anthology of Nonfiction Jane

Bachman Gordon, Karen Kuehner, 1996 This thematically organized collection provides readers with forty nine essays that are models of the craft of writing nonfiction The carefully chosen themes explore the human experience and the individual s role in the world A Mathematical Theory of Natural and Artificial Selection ... John Burdon Sanderson Haldane, 1924

Natural Selection J. Phil Gibson, Terri R. Gibson, 2009 In his groundbreaking book Natural Selection Charles Darwin explained his theory that evolution is driven by adaptation of species to their environmental surroundings From the tiniest microbe to the largest whale all organisms have changed over vast expanses of time due to the forces of natural selection This new title in the Science Foundations series provides an overview of the processes and causes that drive natural selection and the principles that explain how it operates using numerous diverse organisms as examples Natural Selection promotes a solid understanding of how organisms change over the course of generations and how current biodiversity came to be

Nature Versus Natural Selection Coe, 1895 **Nature Versus Natural Selection** Charles Clement Coe, 1895

Natural and Artificial Selection in Numbers Lifeliqe, 2019 This 135 minute lesson plan covers basic knowledge about natural and artificial selection **Artificial Selection and the Development of Evolutionary Theory** Carl Jay

Bajema, 1982 **Artificial Selection and the Development of Evolutionary Theory** Carl Jay Bajema, 1980 The Inadequacy of "natural Selection" Herbert Spencer, 1893 Natural Selection in the Wild John A. Endler, 1986-04-21 Natural selection is an immense and important subject yet there have been few attempts to summarize its effects on natural populations and fewer still which discuss the problems of working with natural selection in the wild These are the purposes

of John Endler's book In it he discusses the methods and problems involved in the demonstration and measurement of natural selection presents the critical evidence for its existence and places it in an evolutionary perspective Professor Endler finds that there are a remarkable number of direct demonstrations of selection in a wide variety of animals and plants The distribution of observed magnitudes of selection in natural populations is surprisingly broad and it overlaps extensively the range of values found in artificial selection He argues that the common assumption that selection is usually weak in natural populations is no longer tenable but that natural selection is only one component of the process of evolution natural selection can explain the change of frequencies of variants but not their origins *Focussed Issue* ,2007 What Darwin Didn't Know ,2019 Darwin contrasted natural selection with artificial selection the time tested techniques for selective breeding that promote desired traits in plants and animals See how far we've come with 21st century tools such as CRISPR which allows precise edits to the DNA sequence of any species Evaluate the promise and perils of this technology which lets us take evolution into our own hands The Effect of Artificial Selection on New Mutations for a Quantitative Trait ,1990

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