

Natural Selection Simulation at PHET

This simulation is located on the school's server. See instructions on board to access the simulation.



1. When you first open the simulation, one bunny will be shown on your screen. If you don't do anything with the simulation, what happens to the bunny?
If you don't do anything with the simulation the bunny does not change and nothing else happens other than it hopping around the land.
2. The simulation allows you to control types of mutations that occur in the bunnies. Look for the area that says "add mutation." What kind of changes can you make to your bunny?
In the area that says "add mutation" you can add fur, ears, and teeth.
3. There are two selection factors listed that can also be changed. What are they?
The selection factors in the simulation that can be changed include wolves, tough food, and limited food.
4. What are the two environments you can choose?
You can choose a summer or winter environment.
5. Click on the RESET ALL button and you will get another bunny. This time, click the button that says "add a friend." What happens to the bunnies this time?
When you click "add a friend" the bunnies reproduce and eventually overpopulate as time goes on.
6. In nature, populations don't get out of control because there are limiting factors in the environment. Start your simulation over and click to add food as a selection factor. **Describe** what happens to the bunnies when food is added as a selection factor.
When food is selected as a limiting factor the bunnies are still able to reproduce just at a much slower rate and at times the population drops and increases.
7. Animals have adaptations that can help them survive in their environment. Reset the simulation and add the "long teeth" mutation to your bunnies and use "food" as your selection factor. **Describe** what happens to the bunnies this time.



Natural Selection Simulation At Phet Answer Key

**Samira Hosseini, Diego Hernan
Peluffo, Julius Nganji, Arturo Arrona-
Palacios**

Natural Selection Simulation At Phet Answer Key:

Technology-Enabled Innovations in Education Samira Hosseini, Diego Hernan Peluffo, Julius Nganji, Arturo Arrona-Palacios, 2022-09-30 This book contains peer reviewed selected papers of the 7th International Conference on Educational Innovation CIIE 2020 It presents excellent educational practices and technologies complemented by various innovative approaches that enhance educational outcomes In line with the Sustainable Development Goal 4 of UNESCO in the 2030 agenda CIIE 2020 has attempted to ensure inclusive and equitable quality education and promote lifelong learning opportunities for all The CIIE 2020 proceeding offers diverse dissemination of innovations knowledge and lessons learned to familiarize readership with new pedagogical oriented technology driven educational strategies along with their applications to emphasize their impact on a large spectrum of stakeholders including students teachers and professors administrators policymakers entrepreneurs governments international organizations and NGOs **A Simulation of Adaptation by**

Natural Selection of Phenotypes in an Artificial Ecology Frederick Lark Wasmer, 1993 *Natural Selection* ,

Introduction to Natural Selection Clifford Johnson, 1976 Genetic systems and fitness Evidence for selection The balanced polymorphism or the non neutral equilibria Selection coefficients in natural populations Varying fitness and the unit of selection Quantitative traits and the selection effect Selection in retrospect and prospect The Statistics of Natural Selection on Animal Populations Bryan F. J. Manly, 1987 Chelsea Science Simulations Sophie McCormick, 1982 **The**

Statistics of Natural Selection on Animal Populations Bryan Manly, 2014-01-15 **Natural Selection** Mario A. Fares, 2014-11-21 This book summarizes the knowledge in the field of methods to identify signatures of natural selection A number of mathematical models and methods have been designed to identify the fingerprints of natural selection on genes and genomes Such methods are provided in a simple and direct way so that students of different disciplines can navigate through molecular fitness landscapes using complex methods with a basic knowledge on bioinformatics A collection of the main methods to detect selection in protein coding genes and amino acid sequences is given at different levels of complexity from nucleotides to proteins and molecular networks The importance of identifying natural selection in genes and genomes through the methods described in this book transcends the bioinformatics and computational biology fields presenting applications for experimental biologists in a straightforward and understandable way **Natural Selection 71 Success Secrets - 71 Most Asked Questions on Natural Selection - What You Need to Know** Kevin Shaffer, 2014-10-01 The best Natural selection Guide you will ever read There has never been a Natural selection Guide like this It contains 71 answers much more than you can imagine comprehensive answers and extensive details and references with insights that have never before been offered in print Get the information you need fast This all embracing guide offers a thorough view of key knowledge and detailed insight This Guide introduces what you want to know about Natural selection A quick look inside of some of the subjects covered The Genetical Theory of Natural Selection Genetics and the Origin of Species Natural selection

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Natural Selection in the Wild John A. Endler, 2020-03-31 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

Natural Selection Theory in Non-majors' Biology Dianne Leigh Anderson, 2003 Evolution by natural selection is the dominant and unifying theme in biology yet many college students hold alternative conceptions about the topic even after completing general biology To develop effective instructional strategies and track conceptual understanding it is useful to have a detailed assessment tool easily used with large classes This study presents the Conceptual Inventory of Natural Selection CINS a distractor driven twenty item multiple choice test that assesses understanding of ten concepts related to natural selection biotic potential stable populations limited natural resources limited survival variation within a population variation inherited differential survival change in populations origin of variation and origin of species Development refinement and field testing of individual CINS items are presented and validity readability reliability and factor analysis of the CINS are described There was significant correlation between student performance on the posttest CINS and end of semester interviews suggesting that the CINS is a useful classroom tool The CINS was used as both a pretest and posttest to determine relative difficulty of the concepts among college students The three most challenging concepts were

random origin of variation how populations change over time due to changing proportions of alleles and how new species originate Many students chose distractors including need as a driving force Results support the use of non traditional methods as only students in such classes demonstrated any improvement on the CINS posttest Pre and posttesting with the CINS was also used to assess relative effectiveness of using two types of supplemental reading materials selections from narrative non textbook sources or from other general biology textbooks in a general biology course These results suggest that specific content of readings was more important than style of the readings Implications for teaching both students and pre service teachers are described

Theory of Natural Selection and Population Growth Lev R. Ginzburg,1983 *The Basics of Selection* Graham Bell,2012-12-06 This new textbook for students taking courses in evolution is addressed to one of the most difficult questions evolutionary biology that of selection Covering both artificial and natural selection the author has written a short readable text that will appeal to students and professionals alike how the nature of the process determines the nature of evolutionary change

Coefficients of Natural Selection Laurence Martin Cook,1971 **Controlled Natural Selection and Value Marking** ,1914 **Statistics of Natural Selection** Bryan F. Manly,1987-10-15 The study of evidence for natural selection Mark recapture experiments Samples taken from a population within one generation Comparison of live and dead animals Complete counts of survivors Evidence from the spatial distribution of a population Gene frequency changes at a single genetic locus Equilibrium gene frequencies at a single locus Selection on quantitative variables Further analyses using genetic data Non random mating and sexual selection Concluding remarks

Natural Selection Mark Pearce,2008 **Natural selection in mankind** Theodosius Grigorievich Dobzhansky,1972 **The Present Situation in Evolutionary Theory** Brian Francis,2014 Luck, Or Cunning, as the Main Means of Organic Modification? Samuel Butler,1975

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