



Date:

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.)

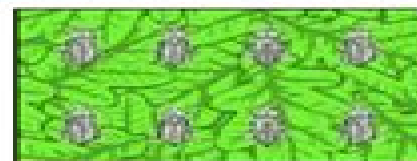


This illustration from an old textbook shows some of the over 150 different dog **breeds** that can be seen around the world today. How do you think all of these different breeds were developed?

They used artificial selection to breed new dog species

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?

There are 5 pairs

Student Exploration Evolution Natural And Artificial Selection

SJ Ball



Student Exploration Evolution Natural And Artificial Selection:

Evolution Challenges Karl S. Rosengren, Sarah K. Brem, E. Margaret Evans, Gale M. Sinatra, 2012-04-23 A recent poll revealed that one in four Americans believe in both creationism and evolution while another 41% believe that creationism is true and evolution is false A minority only 13% believe only in evolution Given the widespread resistance to the idea that humans and other animals have evolved and given the attention to the ongoing debate of what should be taught in public schools issues related to the teaching and learning of evolution are quite timely Evolution Challenges Integrating Research and Practice in Teaching and Learning about Evolution goes beyond the science versus religion dispute to ask why evolution is so often rejected as a legitimate scientific fact focusing on a wide range of cognitive socio cultural and motivational factors that make concepts such as evolution difficult to grasp The volume brings together researchers with diverse backgrounds in cognitive development and education to examine children s and adults thinking learning and motivation and how aspects of representational and symbolic knowledge influence learning about evolution The book is organized around three main challenges inherent in teaching and learning evolutionary concepts folk theories and conceptual biases motivational and epistemological biases and educational aspects in both formal and informal settings Commentaries across the three main themes tie the book together thematically and contributors provide ideas for future research and methods for improving the manner in which evolutionary concepts are conveyed in the classroom and in informal learning experiences Evolution Challenges is a unique text that extends far beyond the traditional evolution debate and is an invaluable resource to researchers in cognitive development science education and the philosophy of science science teachers and exhibit and curriculum developers **Biological Evolution , Evolution Education Re-considered** Ute Harms, Michael J.

Reiss, 2019-07-16 This collection presents research based interventions using existing knowledge to produce new pedagogies to teach evolution to learners more successfully whether in schools or elsewhere Success here is measured as cognitive gains as acceptance of evolution or an increased desire to continue to learn about it Aside from introductory and concluding chapters by the editors each chapter consists of a research based intervention intended to enable evolution to be taught successfully all these interventions have been researched and evaluated by the chapters authors and the findings are presented along with discussions of the implications The result is an important compendium of studies from around the world conducted both inside and outside of school The volume is unique and provides an essential reference point and platform for future work for the foreseeable future Intelligence Emerging Keith L. Downing, 2015-06-26 An investigation of

intelligence as an emergent phenomenon integrating the perspectives of evolutionary biology neuroscience and artificial intelligence Emergence the formation of global patterns from solely local interactions is a frequent and fascinating theme in the scientific literature both popular and academic In this book Keith Downing undertakes a systematic investigation of the widespread if often vague claim that intelligence is an emergent phenomenon Downing focuses on neural networks both

natural and artificial and how their adaptability in three time frames phylogenetic evolutionary ontogenetic developmental and epigenetic lifetime learning underlie the emergence of cognition Integrating the perspectives of evolutionary biology neuroscience and artificial intelligence Downing provides a series of concrete examples of neurocognitive emergence Doing so he offers a new motivation for the expanded use of bio inspired concepts in artificial intelligence AI in the subfield known as Bio AI One of Downing s central claims is that two key concepts from traditional AI search and representation are key to understanding emergent intelligence as well He first offers introductory chapters on five core concepts emergent phenomena formal search processes representational issues in Bio AI artificial neural networks ANNs and evolutionary algorithms EAs Intermediate chapters delve deeper into search representation and emergence in ANNs EAs and evolving brains Finally advanced chapters on evolving artificial neural networks and information theoretic approaches to assessing emergence in neural systems synthesize earlier topics to provide some perspective predictions and pointers for the future of Bio AI

Cultural Connections Morris J. Vogel, 1991 Illustrates the history civilization and social conditions of the United States via artifacts paintings and other objects from the collections of cultural institutions in Philadelphia and environs *The Design of Future Educational Interfaces* Sharon Oviatt, 2013-08-21 The Design of Future Educational Interfaces provides a new multidisciplinary synthesis of educational interface research It explains how computer interfaces can be redesigned to better support our ability to produce ideas think and solve problems successfully in national priority areas such as science and mathematics Based on first hand research experience the author offers a candid analysis of emerging technologies and their impact highlighting communication interfaces that stimulate thought The research results will surprise readers and challenge their assumptions about existing technology and its ability to support our performance In spite of a rapid explosion of interest in educational technologies there remains a poor understanding of what constitutes an effective educational interface for student cognition and learning This book provides valuable insights into why recent large scale evaluations of existing educational technologies have frequently not shown demonstrable improvements in student performance The research presented here is grounded in cognitive science and experimental psychology linguistic science and communications cross cultural cognition and language computer science and human interface design and the learning sciences and educational technology The Artificial Ape Timothy Taylor, 2010-07-20 A breakthrough theory that tools and technology are the real drivers of human evolution Although humans are one of the great apes along with chimpanzees gorillas and orangutans we are remarkably different from them Unlike our cousins who subsist on raw food spend their days and nights outdoors and wear a thick coat of hair humans are entirely dependent on artificial things such as clothing shelter and the use of tools and would die in nature without them Yet despite our status as the weakest ape we are the masters of this planet Given these inherent deficits how did humans come out on top In this fascinating new account of our origins leading archaeologist Timothy Taylor proposes a new way of thinking about human evolution through our relationship with

objects Drawing on the latest fossil evidence Taylor argues that at each step of our species development humans made choices that caused us to assume greater control of our evolution Our appropriation of objects allowed us to walk upright lose our body hair and grow significantly larger brains As we push the frontiers of scientific technology creating prosthetics intelligent implants and artificially modified genes we continue a process that started in the prehistoric past when we first began to extend our powers through objects Weaving together lively discussions of major discoveries of human skeletons and artifacts with a reexamination of Darwin s theory of evolution Taylor takes us on an exciting and challenging journey that begins to answer the fundamental question about our existence what makes humans unique and what does that mean for our future

Artificial Life IV Rodney Allen Brooks,Pattie Maes,1994 This book brings together contributions to the Fourth Artificial Life Workshop held at the Massachusetts Institute of Technology in the summer of 1994

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 pro t in preparing future proof generations towards ubiquitous AI

The Missing Keys Antonio Gino, Ph.D,2017-04-26 Recent statistics indicate up to 70 percent of Americans are exposed to some form of trauma during their life time Most victims of trauma experience at least some symptoms of posttraumatic stress PTS intrusive thoughts flashbacks anxiety vigilance disturbing dreams avoidance of reminders survival guilt anger issues self medication usually with alcohol or other substances sexual issues etc About 20 percent of trauma victims develop posttraumatic stress disorder PTSD i e e

Microbial genomics challenge Darwin Didier Raoult,Eugene V. Koonin, The 200th anniversary of Darwin s birthday was celebrated in 2009 making the concept of Darwinism even more popular than at the time it was originally proposed to the extent that it has acquired quasi religious status His theory revolves around a Tree of Life in which all living organisms are considered to have descended from a single ancestor and each node represents a common ancestor It comprises hierarchy and dichotomy which are typical characteristics of the post biblical 19th century vision Indeed according to post modern philosophy also called the French theory the majority of theories including scientific ones are based only on meta narratives expressing the influence of a culture at a given time Buddhism or Hinduism may have generated a very different story of evolution Our way of thinking about life and the way we

describe evolution have changed radically in the 21st century due to the genomic revolution Comparative genome analyses have demonstrated that gene repertoires are characterized by plasticity and there is strong evidence that nearly all genes have been exchanged at some point Genomic data show that the genetic information of living organisms is inherited not only vertically but also laterally Lateral gene transfers were at first observed only in bacteria which contain genes originating from eukaryotes Archaea and viruses Such transfers were subsequently identified in all living organisms giant viruses have chimeric genomes and the human genome is a mosaic of genes with eukaryotic bacterial and viral origins We cannot identify a single common ancestor for the gene repertoire of any organism Furthermore a very high proportion of genes have been newly created through gene fusion or degradation and others show no homology to sequences found in other species It is now clear that every living organism has a variety of ancestors while exchanges between species are intense and the creation of new genes is frequent and permanent in all living organisms Our current genomic knowledge contradicts the tree of life theory as established by Darwin Recent analyses have produced bushes rather than resolved trees with the structure of some parts remaining elusive It becomes more and more obvious that phylogenetic relationships are better described by forests and networks and that species evolution looks more like a rhizome The chimerism and mosaic structure of all living organisms through both non vertical inheritance and de novo creation can only be assimilated and described by a post Darwinist concept In this Research Topic we wish to highlight the influence of microbiology and genomics on our understanding of the complexity of gene repertoires and also demonstrate how current knowledge does not support Darwin's theory Microbiology has offered a great advance in the way we perceive life Evidence obtained from studies on bacterial and viral evolution lateral inheritance phylogenetic trees and biodiversity continues to challenge what constituted until recently an unimpeded dogma in biology

Artificial Intelligence and Security Xingming Sun, Jinwei Wang, Elisa

Bertino, 2020-08-31 This two volume set LNCS 12239 12240 constitutes the refereed proceedings of the 6th International Conference on Artificial Intelligence and Security ICAIS 2020 which was held in Hohhot China in July 2020 The conference was formerly called International Conference on Cloud Computing and Security with the acronym ICCCS The total of 142 full papers presented in this two volume proceedings was carefully reviewed and selected from 1064 submissions The papers were organized in topical sections as follows Part I Artificial intelligence and internet of things Part II Internet of things information security big data and cloud computing and information processing

Artificial Intelligence in Education

Maria Mercedes Rodrigo, Noburu Matsuda, Alexandra I. Cristea, Vania Dimitrova, 2022-07-26 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

Proceedings of the 2022 3rd International Conference on Artificial Intelligence and Education (IC-ICAIE 2022) Bob Fox, Chuan Zhao, Marcus T.

Anthony, 2024-03-14 This is an open access book The 2022 3rd International Conference on Artificial Intelligence and Education ICAIE 2022 will be held in Chengdu China during June 24-26 2022 The meeting focused on the new trends in the development of artificial intelligence and education under the new situation and jointly discussed how to empower and promote the high quality development of artificial intelligence and education An ideal platform to share views and experiences with industry experts The conference invites experts and scholars in the field to conduct wonderful exchanges based on their own research results based on the development of the times The themes are around artificial intelligence technology and applications intelligent and knowledge based systems information based education intelligent learning advanced information theory and neural network technology software computing and algorithms intelligent algorithms and computing and many other topics

Transforming Health and Social Education to Include a Greater Focus on Public Health Education in the Curriculum Sharon Brownie, Constance Shumba, Louise Ackers, Georgina A.V. Murphy, 2023-12-14 Now more than ever an increased emphasis is needed on educational changes and innovations to effectively prepare health and social service professionals for 21st century practice Earlier work of the Lancet Independent Global Commission has been instrumental in validating the need for curricula change to include a focus on social determinants public health priorities and strategies to sustain healthy communities The need to further strengthen the public health focus within health and social service education has been fuelled by the COVID 19 pandemic and the growing recognition of specific issues challenging society such as that highlighted within the technical report recently released by the World Health Organization recognizing Parkinson's Disease as a public health issue Each is an example of the need to prepare a future health and social service workforce well equipped in responding to major public health issues while contributing to global health and human wellbeing The goal of this Research Topic is to provide additional evidence based contributions to strengthen the public health focus in health and social service education We aim to commission and publish a broad range of works including original research case studies pedagogical innovations curriculum developments program evaluations and debate

Nature London, 1873 **American Paleontologist**, 1996 Gardeners' Chronicle, 1902 **The Beginning and the End** Clément

Vidal, 2014-05-16 In this fascinating journey to the edge of science Vidal takes on big philosophical questions Does our universe have a beginning and an end or is it cyclic Are we alone in the universe What is the role of intelligent life if any in cosmic evolution Grounded in science and committed to philosophical rigor this book presents an evolutionary worldview where the rise of intelligent life is not an accident but may well be the key to unlocking the universe's deepest mysteries

Vidal shows how the fine tuning controversy can be advanced with computer simulations He also explores whether natural or artificial selection could hold on a cosmic scale In perhaps his boldest hypothesis he argues that signs of advanced extraterrestrial civilizations are already present in our astrophysical data His conclusions invite us to see the meaning of life evolution and intelligence from a novel cosmological framework that should stir debate for years to come **Bulletin of the Atomic Scientists** ,1977-04 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world

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