

Name: _____

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

Guillaume Favre



Natural Selection Simulation At Phet Answer Key

A Simulation of Adaptation by Natural Selection of Phenotypes in an Artificial Ecology Frederick Lark Wasmer,1993

Modeling Dynamic Biological Systems Bruce Hannon,Matthias Ruth,2012-12-06 Models help us understand the dynamics of real world processes by using the computer to mimic the actual forces that are known or assumed to result in a system s behavior This book does not require a substantial background in mathematics or computer science

An Interactive Introduction to Organismal and Molecular Biology Andrea Bierema,2021

Simulation and Learning Franco Landriscina,2013-03-14 The main idea of this book is that to comprehend the instructional potential of simulation and to design effective simulation based learning environments one has to consider both what happens inside the computer and inside the students minds The framework adopted to do this is model centered learning in which simulation is seen as particularly effective when learning requires a restructuring of the individual mental models of the students as in conceptual change Mental models are by themselves simulations and thus simulation models can extend our biological capacity to carry out simulative reasoning For this reason recent approaches in cognitive science like embodied cognition and the extended mind hypothesis are also considered in the book A conceptual model called the epistemic simulation cycle is proposed as a blueprint for the comprehension of the cognitive activities involved in simulation based learning and for instructional design

Learning Science Through Computer Games and Simulations National Research Council,Division of Behavioral and Social Sciences and Education,Board on Science Education,Committee on Science Learning: Computer Games, Simulations, and Education,2011-04-12 At a time when scientific and technological competence is vital to the nation s future the weak performance of U S students in science reflects the uneven quality of current science education Although young children come to school with innate curiosity and intuitive ideas about the world around them science classes rarely tap this potential Many experts have called for a new approach to science education based on recent and ongoing research on teaching and learning In this approach simulations and games could play a significant role by addressing many goals and mechanisms for learning science the motivation to learn science conceptual understanding science process skills understanding of the nature of science scientific discourse and argumentation and identification with science and science learning To explore this potential Learning Science Computer Games Simulations and Education reviews the available research on learning science through interaction with digital simulations and games It considers the potential of digital games and simulations to contribute to learning science in schools in informal out of school settings and everyday life The book also identifies the areas in which more research and research based development is needed to fully capitalize on this potential Learning Science will guide academic researchers developers publishers and entrepreneurs from the digital simulation and gaming community and education practitioners and policy makers toward the formation of research and development partnerships that will facilitate rich intellectual collaboration Industry government agencies and foundations will play a significant role through start up and ongoing support to ensure that digital games and simulations will not only excite and entertain but also motivate and educate

One Jump Ahead Jonathan Schaeffer, 2008-12-16 It's hard to believe that it's been over a decade since *One Jump Ahead: Challenging Human Supremacy at Checkers* was published. I'm delighted to have the opportunity to update and expand the book. The first edition ended on a sad note and that was reflected in the writing. It is now eleven years later and the project has come to a satisfying conclusion. Since its inception, the checkers project has consumed eighteen years of my life, twenty if you count the pre-CHINOOK and post-solving work. It's hard for me to believe that I actually stuck with it for that long. My wife Steph would probably have something witty to say about my obsessive behavior. Rereading the book after a decade was difficult for me. When I originally wrote *One Jump Ahead*, I vowed to be candid in my telling of the story. That meant being honest about what went right and what went wrong. I have been criticized for being hard on some of the characters. That may be so, but I hope everyone will agree that the person receiving the most criticism was justifiably me. I tried to be balanced in the storytelling, reflecting things as they really happened and not as some sanitized everyone lived happily ever after tale.

Where Biology Meets Psychology Valerie Gray Hardcastle, 1999 A great deal of interest and excitement surround the interface between the philosophy of biology and the philosophy of psychology, yet the area is neither well defined nor well represented in mainstream philosophical publications. This book is perhaps the first to open a dialogue between the two disciplines. Its aim is to broaden the traditional subject matter of the philosophy of biology while informing the philosophy of psychology of relevant biological constraints and insights. The book is organized around six themes: functions and teleology, evolutionary psychology, innateness, philosophy of mind, philosophy of science, and parallels between philosophy of biology and philosophy of mind. Throughout, one finds overlapping areas of study, larger philosophical implications, and even larger conceptual ties. Woven through these connections are shared concerns about the status of semantics, scientific law, evolution, and adaptation, and cognition in general. Contributors: Andr Ariew, Mark A Bedau, David J Buller, Paul Sheldon Davies, Stephen M Downes, Charbel Nio El Hani, Owen Flanagan, Peter Godfrey Smith, Todd Grantham, Valerie Gray Hardcastle, Gary Hatfield, Daniel W McShea, Karen Neander, Shaun Nichols, Antonio Marcos Pereira, Tom Polger, Lawrence A Shapiro, Kim Sterelny, Robert A Wilson, William C Wimsatt.

The Power of a Teacher Adam Sáenz, 2012 Adam Saenz's *The Power of a Teacher* is the result of years of research and professional development conducted in school districts nationwide. In this book, you will be able to take the 50-item Teacher Wellness Inventory to identify strengths and weaknesses in the occupational, emotional, financial, spiritual, and physical areas of your life. It's also filled with discussion questions to create interaction and dialogue between colleagues. Read the stories of real people whose lives were changed by real teachers.

Uncovering Student Ideas in Life Science Page Keeley, 2011 Author Page Keeley continues to provide KOC12 teachers with her highly usable and popular formula for uncovering and addressing the preconceptions that students bring to the classroom. OCothe formative assessment probe OCo in this first book devoted exclusively to life science in her *Uncovering Student Ideas in Science* series. Keeley addresses the topics of life and its diversity, structure and function, life processes, and needs of living things, ecosystems, and change, reproduction, life cycles, and heredity, and human biology.

Teaching at Its Best Linda B. Nilson, 2010-04-20 Teaching at Its Best This third edition of the best selling handbook offers faculty at all levels an essential toolbox of hundreds of practical teaching techniques formats classroom activities and exercises all of which can be implemented immediately This thoroughly revised edition includes the newest portrait of the Millennial student current research from cognitive psychology a focus on outcomes maps the latest legal options on copyright issues and how to best use new technology including wikis blogs podcasts vodcasts and clickers Entirely new chapters include subjects such as matching teaching methods with learning outcomes inquiry guided learning and using visuals to teach and new sections address Felder and Silverman s Index of Learning Styles SCALE UP classrooms multiple true false test items and much more Praise for the Third Edition of Teaching at Its Best Everyone veterans as well as novices will profit from reading Teaching at Its Best for it provides both theory and practical suggestions for handling all of the problems one encounters in teaching classes varying in size ability and motivation Wilbert McKeachie Department of Psychology University of Michigan and coauthor McKeachie s Teaching Tips This new edition of Dr Nilson s book with its completely updated material and several new topics is an even more powerful collection of ideas and tools than the last What a great resource especially for beginning teachers but also for us veterans L Dee Fink author Creating Significant Learning Experiences This third edition of Teaching at Its Best is successful at weaving the latest research on teaching and learning into what was already a thorough exploration of each topic New information on how we learn how students develop and innovations in instructional strategies complement the solid foundation established in the first two editions Marilla D Svinicki Department of Psychology The University of Texas Austin and coauthor McKeachie s Teaching Tips

The Sixth Extinction Elizabeth Kolbert, 2014-02-11 ONE OF THE NEW YORK TIMES BOOK REVIEW S 10 BEST BOOKS OF THE YEAR A major book about the future of the world blending intellectual and natural history and field reporting into a powerful account of the mass extinction unfolding before our eyes Over the last half a billion years there have been five mass extinctions when the diversity of life on earth suddenly and dramatically contracted Scientists around the world are currently monitoring the sixth extinction predicted to be the most devastating extinction event since the asteroid impact that wiped out the dinosaurs This time around the cataclysm is us In *The Sixth Extinction* two time winner of the National Magazine Award and New Yorker writer Elizabeth Kolbert draws on the work of scores of researchers in half a dozen disciplines accompanying many of them into the field geologists who study deep ocean cores botanists who follow the tree line as it climbs up the Andes marine biologists who dive off the Great Barrier Reef She introduces us to a dozen species some already gone others facing extinction including the Panamanian golden frog staghorn coral the great auk and the Sumatran rhino Through these stories Kolbert provides a moving account of the disappearances occurring all around us and traces the evolution of extinction as concept from its first articulation by Georges Cuvier in revolutionary Paris up through the present day The sixth extinction is likely to be mankind s most lasting legacy as Kolbert observes it compels us to rethink the fundamental question of what it means to be human

College Physics Paul Peter Urone, Roger Hinrichs, 2018-01-05 This is part two of two for College Physics This book covers chapters 18-34 Please note The text and images in this textbook are grayscale and the format size has been reduced from 8.5 x 11 to 7.44 x 9.69 This introductory algebra based two semester college physics book is grounded with real world examples illustrations and explanations to help students grasp key fundamental physics concepts College Physics includes learning objectives concept questions links to labs and simulations and ample practice opportunities to solve traditional physics application problems

How Tobacco Smoke Causes Disease United States. Public Health Service. Office of the Surgeon General,2010 This report considers the biological and behavioral mechanisms that may underlie the pathogenicity of tobacco smoke Many Surgeon General s reports have considered research findings on mechanisms in assessing the biological plausibility of associations observed in epidemiologic studies Mechanisms of disease are important because they may provide plausibility which is one of the guideline criteria for assessing evidence on causation This report specifically reviews the evidence on the potential mechanisms by which smoking causes diseases and considers whether a mechanism is likely to be operative in the production of human disease by tobacco smoke This evidence is relevant to understanding how smoking causes disease to identifying those who may be particularly susceptible and to assessing the potential risks of tobacco products

Brain-powered Science Thomas O'Brien,2010

Chemistry 2e Paul Flowers,Richard Langely,William R. Robinson,Klaus Hellmut Theopold,2019-02-14 Chemistry 2e is designed to meet the scope and sequence requirements of the two semester general chemistry course The textbook provides an important opportunity for students to learn the core concepts of chemistry and understand how those concepts apply to their lives and the world around them The book also includes a number of innovative features including interactive exercises and real world applications designed to enhance student learning The second edition has been revised to incorporate clearer more current and more dynamic explanations while maintaining the same organization as the first edition Substantial improvements have been made in the figures illustrations and example exercises that support the text narrative Changes made in Chemistry 2e are described in the preface to help instructors transition to the second edition

Accessible Elements Dietmar Karl Kennepohl,Lawton Shaw,2010 Accessible Elements informs science educators about current practices in online and distance education distance delivered methods for laboratory coursework the requisite administrative and institutional aspects of online and distance teaching and the relevant educational theory Delivery of university level courses through online and distance education is a method of providing equal access to students seeking post secondary education Distance delivery offers practical alternatives to traditional on campus education for students limited by barriers such as classroom scheduling physical location finances or job and family commitments The growing recognition and acceptance of distance education coupled with the rapidly increasing demand for accessibility and flexible delivery of courses has made distance education a viable and popular option for many people to meet their science educational goals

Disciplinary Core Ideas Ravit Golan Duncan, Joseph S. Krajcik, Ann E. Rivet, 2016 Like all enthusiastic teachers you want your students to see the connections between important science concepts so they can grasp how the world works now and maybe even make it work better in the future But how exactly do you help them learn and apply these core ideas Just as its subtitle says this important book aims to reshape your approach to teaching and your students way of learning Building on the foundation provided by A Framework for K 12 Science Education which informed the development of the Next Generation Science Standards the book s four sections cover these broad areas 1 Physical science core ideas explain phenomena as diverse as why water freezes and how information can be sent around the world wirelessly 2 Life science core ideas explore phenomena such as why children look similar but not identical to their parents and how human behavior affects global ecosystems 3 Earth and space sciences core ideas focus on complex interactions in the Earth system and examine phenomena as varied as the big bang and global climate change 4 Engineering technology and applications of science core ideas highlight engineering design and how it can contribute innovative solutions to society s problems Disciplinary Core Ideas can make your science lessons more coherent and memorable regardless of what subject matter you cover and what grade you teach Think of it as a conceptual tool kit you can use to help your students learn important and useful science now and continue learning throughout their lives

Helping Students Make Sense of the World Using Next Generation Science and Engineering Practices Christina V. Schwarz, Cynthia Passmore, Brian J. Reiser , 2017-01-31 When it s time for a game change you need a guide to the new rules Helping Students Make Sense of the World Using Next Generation Science and Engineering Practices provides a play by play understanding of the practices strand of A Framework for K 12 Science Education Framework and the Next Generation Science Standards NGSS Written in clear nontechnical language this book provides a wealth of real world examples to show you what s different about practice centered teaching and learning at all grade levels The book addresses three important questions 1 How will engaging students in science and engineering practices help improve science education 2 What do the eight practices look like in the classroom 3 How can educators engage students in practices to bring the NGSS to life Helping Students Make Sense of the World Using Next Generation Science and Engineering Practices was developed for K 12 science teachers curriculum developers teacher educators and administrators Many of its authors contributed to the Framework s initial vision and tested their ideas in actual science classrooms If you want a fresh game plan to help students work together to generate and revise knowledge not just receive and repeat information this book is for you

Computational Thinking Education Siu-Cheung Kong, Harold Abelson, 2019-07-04 This This book is open access under a CC BY 4 0 license This book offers a comprehensive guide covering every important aspect of computational thinking education It provides an in depth discussion of computational thinking including the notion of perceiving computational thinking practices as ways of mapping models from the abstraction of data and process structures to natural phenomena Further it explores how computational thinking education is implemented in different regions and how computational thinking is being integrated into subject learning in K 12 education In closing it discusses computational thinking from the perspective of STEM education the use of video games to teach computational thinking and how computational thinking is helping to transform the quality of the workforce in the textile and apparel industry

The Principles of Quantum Mechanics Paul Adrien Maurice Dirac, 1981 The first edition of this work appeared in 1930 and its originality won it immediate recognition as a classic of modern physical theory The fourth edition has been bought out to meet a continued demand Some improvements have been made the main one being the complete rewriting of the chapter on quantum electrodymanics to bring in electron pair creation This makes it suitable as an introduction to recent works on quantum field theories

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web my lover my son is a 1970 american british coproduction drama film directed by john newland it tells the story of a mother played by romy schneider clinging to her maturing son the film is based on edward grierson's 1952 novel reputation for a song plot francesca anderson leads an unhappy marriage with her husband robert

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