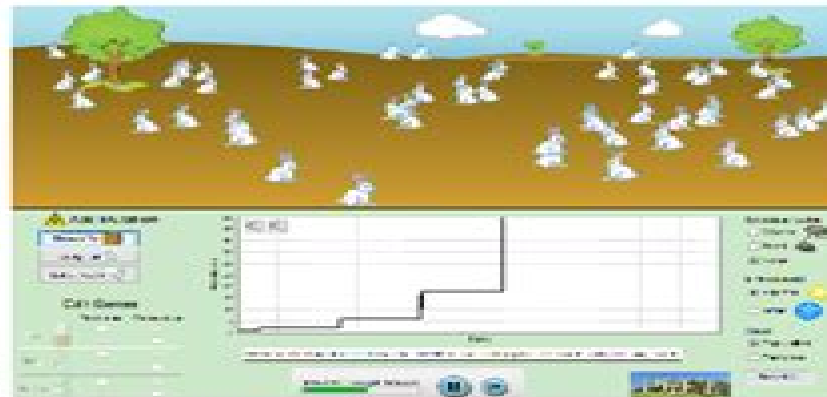


Name: _____

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 Virtual Lab Answer Key

Didier Musso



Natural Selection Virtual Lab Answer Key:

Readings in Science Methods, K-8 Eric Brunzell, 2008 If you're teaching an introductory science education course in a college or university Readings in Science Methods K 8 with its blend of theory research and examples of best practices can serve as your only text your primary text or a supplemental text

K-12 STEM Education: Breakthroughs in Research and Practice Management Association, Information Resources, 2017-10-31 Education is vital to the progression and sustainability of society By developing effective learning programs this creates numerous impacts and benefits for future generations to come K 12 STEM Education Breakthroughs in Research and Practice is a pivotal source of academic material on the latest trends techniques technological tools and scholarly perspectives on STEM education in K 12 learning environments Including a range of pertinent topics such as instructional design online learning and educational technologies this book is an ideal reference source for teachers teacher educators professionals students researchers and practitioners interested in the latest developments in K 12 STEM education

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Resources in Education, 2001-10 *Handbook of Research on Technology Tools for Real-World Skill Development* Rosen, Yigal, Ferrara, Steve, Mosharraf, Maryam, 2015-10-19 Education is expanding to include a stronger focus on the practical application of classroom lessons in an effort to prepare the next generation of scholars for a changing world economy centered on collaborative and problem solving skills for the digital age The Handbook of Research on Technology Tools for Real World Skill Development presents comprehensive research and discussions on the importance of practical education focused on digital literacy and the problem solving skills necessary in everyday life Featuring timely research based chapters exploring the broad scope of digital and computer based learning strategies including but not limited to enhanced classroom experiences assessment programs and problem solving training this publication is an essential reference source for academicians researchers professionals and policymakers interested in the practical application of technology based learning for next generation education

Intelligent Systems Report, 1999

Research Report Max-Planck-Institut für Wissenschaftsgeschichte,2004 *Economic Report Series* ,1974* *The Costs and Benefits of Animal Experiments* Andrew Knight,2011-05-27 A comprehensive review of recent scientific evidence examining the contributions of animal experimentation to human healthcare The book also explores toxicity prediction animal use during life and health sciences education impacts on student attitudes toward animals and the extent to which animals suffer in laboratories Index Medicus ,2004 **Readings in Natural Language Processing** Barbara J. Grosz,Karen Sparck Jones,Bonnie Lynn Webber,1986 Engineering & ICT ,2007 Organized by Universiti Teknikal Malaysia Melaka Im/Tb Ess Physical Anthro Jurmain,2003-07 **Forbes** ,1999 **The New Walford Guide to Reference Resources** Ray Lester,2005 The New Walford highlights the best resources to use when undertaking a search for accurate and relevant information saving you precious time and effort For those looking for a selective and evaluative reference resource that really delivers on its promise look no further In addition to print sources The New Walford naturally covers an extensive range of e reference sources such as digital databanks digital reference services electronic journal collections meta search engines networked information services open archives resource discovery services and websites of premier organizations in both the public and private sectors But rather than supplying a list of all available known resources as a web search engine might The New Walford subject specialists have carefully selected and evaluated available resources to provide a definitive list of the most appropriate and useful With an emphasis on quality and sustainability the subject specialists have been careful to assess the differing ways that information is framed and communicated in different subject areas As a result the resource evaluations in each subject area are prefaced by an introductory overview of the structure of the relevant literature This ensures that The New Walford is clear easy to use and intuitive Publisher **Automotive Engineering International** ,2006 *Technology Review* ,2005 **Annual Report** India. Department of Information Technology,2006 **Current Literature** ,1957 **ACL Proceedings** ACL,1997 Proceedings of the Conferences on Applied Natural Language Processing sponsored by the Association for Computational Linguistics

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Table of Contents Natural Selection Virtual Lab Answer Key

1. Understanding the eBook Natural Selection Virtual Lab Answer Key
 - The Rise of Digital Reading Natural Selection Virtual Lab Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Natural Selection Virtual Lab Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in a Natural Selection Virtual Lab Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Natural Selection Virtual Lab Answer Key
 - Personalized Recommendations
 - Natural Selection Virtual Lab Answer Key User Reviews and Ratings
 - Natural Selection Virtual Lab Answer Key and Bestseller Lists
5. Accessing Natural Selection Virtual Lab Answer Key Free and Paid eBooks
 - Natural Selection Virtual Lab Answer Key Public Domain eBooks
 - Natural Selection Virtual Lab Answer Key eBook Subscription Services
 - Natural Selection Virtual Lab Answer Key Budget-Friendly Options
6. Navigating Natural Selection Virtual Lab Answer Key eBook Formats

- ePub, PDF, MOBI, and More
 - Natural Selection Virtual Lab Answer Key Compatibility with Devices
 - Natural Selection Virtual Lab Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Natural Selection Virtual Lab Answer Key
 - Highlighting and Note-Taking Natural Selection Virtual Lab Answer Key
 - Interactive Elements Natural Selection Virtual Lab Answer Key
 8. Staying Engaged with Natural Selection Virtual Lab Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Natural Selection Virtual Lab Answer Key
 9. Balancing eBooks and Physical Books Natural Selection Virtual Lab Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Natural Selection Virtual Lab Answer Key
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Natural Selection Virtual Lab Answer Key
 - Setting Reading Goals Natural Selection Virtual Lab Answer Key
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Natural Selection Virtual Lab Answer Key
 - Fact-Checking eBook Content of Natural Selection Virtual Lab Answer Key
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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