

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

**Eric Brunsell**



## **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

Revolutionizing K-12 Blended Learning through the i<sup>2</sup>Flex Classroom Model Avgerinou, Maria D., Gialamas, Stefanos P., 2016-06-20 Blended learning has gained significant attention recently by educational leaders practitioners and researchers i Flex a variation of blended learning is based on the premise that certain non interactive teaching activities such as lecturing can take place by students without teachers direct involvement Classroom time can then be used for educational activities that fully exploit teacher student and student student interactions allowing for meaningful personalized feedback and scaffolding on demand Revolutionizing K 12 Blended Learning through the i Flex Classroom Model presents a well rounded discussion on the i Flex model highlighting methods for K 12 course design delivery and evaluation in addition to teacher performance assessment in a blended i Flex environment Emphasizing new methods for improving the classroom and learning experience in addition to preparing students for higher education and careers this publication is an essential reference source for pre service and in service teachers researchers administrators and educational technology developers

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\*      **Index Medicus** ,2004      **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      Readings in Natural Language Processing Barbara J. Grosz,Karen Sparck Jones,Bonnie Lynn Webber,1986  
    *Im/Tb Ess Physical Anthro* Jurmain,2003-07      *Engineering & ICT* ,2007 Organized by Universiti Teknikal Malaysia  
Melaka      **The New Walford Guide to Reference Resources** Ray Lester,2005 The New Walford highlights the best  
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