

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.



Answer Key On Natural Selection

Karl S. Rosengren



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Table of Contents Answer Key On Natural Selection

1. Understanding the eBook Answer Key On Natural Selection
 - The Rise of Digital Reading Answer Key On Natural Selection
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key On Natural Selection
 - 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 an Answer Key On Natural Selection
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key On Natural Selection
 - Personalized Recommendations
 - Answer Key On Natural Selection User Reviews and Ratings
 - Answer Key On Natural Selection and Bestseller Lists
5. Accessing Answer Key On Natural Selection Free and Paid eBooks

- Answer Key On Natural Selection Public Domain eBooks
- Answer Key On Natural Selection eBook Subscription Services
- Answer Key On Natural Selection Budget-Friendly Options
- 6. Navigating Answer Key On Natural Selection eBook Formats
 - ePub, PDF, MOBI, and More
 - Answer Key On Natural Selection Compatibility with Devices
 - Answer Key On Natural Selection Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answer Key On Natural Selection
 - Highlighting and Note-Taking Answer Key On Natural Selection
 - Interactive Elements Answer Key On Natural Selection
- 8. Staying Engaged with Answer Key On Natural Selection
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer Key On Natural Selection
- 9. Balancing eBooks and Physical Books Answer Key On Natural Selection
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Key On Natural Selection
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answer Key On Natural Selection
 - Setting Reading Goals Answer Key On Natural Selection
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answer Key On Natural Selection
 - Fact-Checking eBook Content of Answer Key On Natural Selection
 - 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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