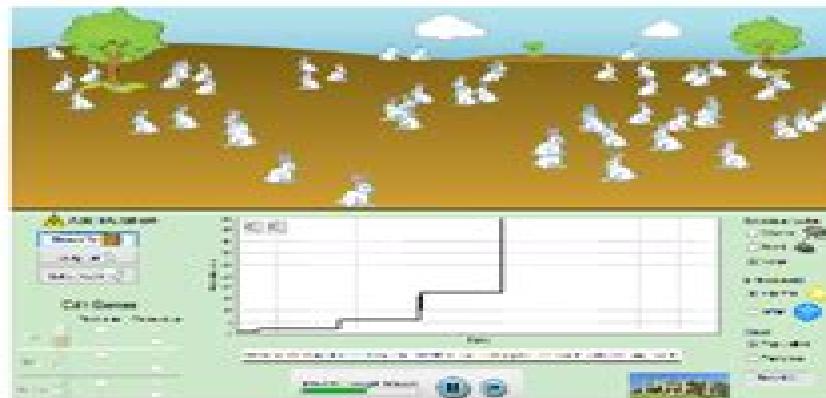


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Natural Selection Simulation at PHET

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 Study Guide Answer

Sylvia S. Mader

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Table of Contents Natural Selection Simulation Study Guide Answer

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

- Natural Selection Simulation Study Guide Answer Public Domain eBooks
- Natural Selection Simulation Study Guide Answer eBook Subscription Services
- Natural Selection Simulation Study Guide Answer Budget-Friendly Options

6. Navigating Natural Selection Simulation Study Guide Answer eBook Formats

- ePUB, PDF, MOBI, and More
- Natural Selection Simulation Study Guide Answer Compatibility with Devices
- Natural Selection Simulation Study Guide Answer Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Natural Selection Simulation Study Guide Answer
- Highlighting and Note-Taking Natural Selection Simulation Study Guide Answer
- Interactive Elements Natural Selection Simulation Study Guide Answer

8. Staying Engaged with Natural Selection Simulation Study Guide Answer

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Natural Selection Simulation Study Guide Answer

9. Balancing eBooks and Physical Books Natural Selection Simulation Study Guide Answer

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Natural Selection Simulation Study Guide Answer

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Natural Selection Simulation Study Guide Answer

- Setting Reading Goals Natural Selection Simulation Study Guide Answer
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Natural Selection Simulation Study Guide Answer

- Fact-Checking eBook Content of Natural Selection Simulation Study Guide Answer
- 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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