

Peppered Moth Simulation



Objective: Simulate changes in moth population due to pollution and predation, and observe how species can change over time.

Introduction:

Charles Darwin accumulated a tremendous collection of facts to support the theory of evolution by natural selection. One of his difficulties in demonstrating the theory, however, was the lack of an example of evolution over a short period of time, which could be observed as it was taking place in nature. Although Darwin was unaware of it, remarkable examples of evolution, which might have helped to persuade people of his theory, were in the countryside of his native England. One such example is the evolution of the peppered moth *Biston betularia*.

The economic changes known as the industrial revolution began in the middle of the eighteenth century. Since then, tons of soot have been deposited on the country side around industrial areas. The soot discolored and generally darkened the surfaces of trees and rocks. In 1848, a dark-colored moth was first recorded. Today, in some areas, 90% or more of the-peppered moths are dark in color. More than 70 species of moth in England have undergone a change from light to dark. Similar observations have been made in other industrial nations, including the United States.

Procedures:

1. Click the link below to read more information on Kettlewell's study of moths. At the end, you will run two simulations for 5 minutes each, during this time you will play the part of a bluejay that eats moths.
2. After 5 minutes record the % of dark moths and light moths - you will need this information later.
3. Peppered Moth Simulation at peppermoths.weebly.com

Data and Analysis

Read the background information and answer the questions as you go.

Part A: Life Cycle of the Peppered Moth

1. Why are these moths called "peppered moths?"
2. What animals eat the peppered moth?
3. What is a lichen?
4. What do the larvae of the moth eat?
5. How do peppered moths spend the winter?
6. Moths that have more dark spots than the average moth are called what?

Peppered Moth Simulation Answers

Judd E. Hollander



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Table of Contents Peppered Moth Simulation Answers

1. Understanding the eBook Peppered Moth Simulation Answers
 - The Rise of Digital Reading Peppered Moth Simulation Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Peppered Moth Simulation Answers
 - 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 Peppered Moth Simulation Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Peppered Moth Simulation Answers
 - Personalized Recommendations
 - Peppered Moth Simulation Answers User Reviews and Ratings
 - Peppered Moth Simulation Answers and Bestseller Lists
5. Accessing Peppered Moth Simulation Answers Free and Paid eBooks
 - Peppered Moth Simulation Answers Public Domain eBooks
 - Peppered Moth Simulation Answers eBook Subscription Services
 - Peppered Moth Simulation Answers Budget-Friendly Options
6. Navigating Peppered Moth Simulation Answers eBook Formats

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