



Peppered Moths: Natural Selection in Black & White

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 discoloured and generally darkened the surfaces of trees and rocks. In 1848, a dark-coloured moth was first recorded. Today, in some areas, 90% or more of the peppered moths are dark in colour. 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.

Instructions:

Go to 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.

After 5 minutes record the % of dark moths and light moths you will need this information later.

Link: Peppered Moth Simulation at peppermoths.weebly.com

Data and Analysis

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

Jicheng Xie



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Table of Contents Peppered Moth Activity Answers

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

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