

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 Answer Key

Xiang Xie



Peppered Moth Simulation Answer Key:

Language Power: Grades 6-8 Level A Teacher's Guide Ericka Davis Wien, 2012-10-30 **Journal of Biological Education** ,1991 **The Computer in the Science Curriculum** Janet J. Woerner, Robert H. Rivers, Edward L. Vockell, 1991 Generalist and Specialist Raina Mooncrest, AI, 2025-02-26

Generalist and Specialist explores the contrasting ecological strategies species employ to survive broad adaptability versus specialized resource exploitation. It examines why some species thrive in diverse environments as generalists while others as specialists are confined to narrow niches. Understanding these dynamics is vital especially with rapid environmental changes impacting species survival. Did you know that a species' success isn't solely based on inherent traits but on its ecological strategy matching environmental pressures? The book begins by establishing core concepts like niche breadth and resource utilization, then dissects the evolutionary forces shaping each strategy using case studies to highlight specific adaptations. It analyzes the vulnerabilities of both strategies, such as specialists being more susceptible to habitat loss and generalists facing increased competition. The book progresses by examining the distribution patterns of these species across various ecosystems and draws from ecological and evolutionary studies, integrating theoretical models with empirical data for a nuanced understanding. This interdisciplinary approach links ecology with evolutionary biology and conservation, offering insights for conservation planning and risk assessment. The ecological strategies explored have strong implications in conservation efforts, and the book stimulates critical thinking by addressing ongoing debates in the field.

The Software Encyclopedia ,1988 The Science Teacher ,1992

Some issues are accompanied by a CD ROM on a selected topic *Illinois Chemistry Teacher* ,1992

Microcomputers in Education ,1983 **Biology** ,1999 *Reports of the National Center for Science Education* ,2005

The Enigmatic Realm of **Peppered Moth Simulation Answer Key**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Peppered Moth Simulation Answer Key** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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