

Name: _____ Date: _____ Period: _____

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.

Hypothesis: What will happen to the population sizes of dark and light colored moths based upon how well you catch dark and light moths in each forest environment?

Light forest:

Dark forest:

Go to <http://peppermoths.weebly.com>. You will run two simulations, one in a light forest and one in a dark forest for 1 minute each, during this time you will play the part of a blue jay that eats moths.

Data Collection:

Open the simulation **Birdseye View** and play the role of the bird in both the dark and the light forest. Try to behave as a bird would behave, choosing the moths that are the most obvious. At the end of each simulation, record the percent of moths captured in the table below.

After 1 minute record the % of dark moths and light moths. Repeat the simulation for each forest. You will perform the simulation for a total of 4 times. Then, trade your data with a partner and record their data in your data table. You will have 4 pieces of data for each forest.

Virtual Lab Peppered Moth

CH Cherryholmes

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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The Hundred Years' Trial Alexander Gouzoules, Harold Gouzoules, 2025-07-01 A new account of the enduring cultural legal and scientific legacy of the 1925 Scopes Trial In *The Hundred Years Trial* Alexander and Harold Gouzoules explore the century long impacts of the historic 1925 Scopes Monkey Trial starting with the development of evolutionary theory and charting the resulting cultural and legal conflicts over evolution in the United States Through a blend of legal history scientific exploration and cultural analysis the authors reexamine how this landmark trial remains a pivotal moment in shaping modern debates on science religion and education The Scopes Trial became a symbol of a larger culture clash where questions of academic freedom the role of religion in public life and the boundaries of state intervention are fiercely debated This book uncovers the complex layers of this conflict offering readers a broader perspective that extends beyond the courtroom drama In tracing the legacies of Clarence Darrow and William Jennings Bryan the authors analyze how the trial's outcomes reverberated through later Supreme Court cases and shaped public policies and educational standards well into the twenty first century The authors further illustrate how the dialogue surrounding evolution has contributed to contentious debates not merely over the acceptance of evolutionary theory itself but regarding emergent claims and interpretations that continue to generate public and legal scrutiny One hundred years later the tensions between science and religious belief that were so brightly illuminated by Scopes are not only still with us but also increasingly relevant to the perpetual cultural issues in the American political consciousness abortion climate change and vaccines *The Hundred Years Trial* is vital for understanding not only how we arrived at our current political moment but also where we go next in communicating science to a skeptical public

Genetics A. Jamie Cuticchia, 2009 As science has discovered more and more about genetics the legal implications have also grown *Genetics A Handbook for Lawyers* the third book in the ABA Fundamentals series explores these implications with easy to understand discussions of the science and its application in real cases This book is a must for any lawyer whose practice touches upon the field of genetics

Biology, 1999 **Inquiry Skills Development** Holt Rinehart & Winston, 1998-01-27 *The Science Teacher*, 1993 SCC Library has 1964 cur [Illinois Chemistry Teacher](#), 1992 [Report of the Annual Meeting](#) British Association for the Advancement of Science. Meeting, 1925

Entomology Abstracts, 1994 Monthly with annual author and subject indexes Abstracts from about 2750 primary journals dealing with the subject of insects Arranged in classified order Entries include titles given or translated into English authors addresses offirst authors and abstracts all insects cited in the abstracts are identified by scientific family names Each monthly issue has Index to classes and orders Author index

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headings and Diseases organisms vaccines No author index Introduction to Population Genetics Richard Halliburton, 2004
Making the theory of population genetics relevant to readers this book explains the related mathematics with a logical organization It presents the quantitative aspects of population genetics and employs examples of human genetics medical evolution human evolution and endangered species For an introduction to and understanding of population genetics

Bibliography of Agriculture ,1971 Genetics Abstracts ,1989 El-Hi Textbooks in Print ,1984 **The Zoological Record** ,1870 **New York** ,2002 **The Guardian Index** ,2002 Current Advances in Ecological & Environmental Sciences ,1993-05 **Journal of the Society for the Bibliography of Natural History** Society for the Bibliography of Natural History,1962 **Library of Congress Catalog: Motion Pictures and Filmstrips** Library of Congress,1968
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Unveiling the Energy of Verbal Beauty: An Mental Sojourn through **Virtual Lab Peppered Moth**

In a world inundated with displays and the cacophony of immediate communication, the profound power and emotional resonance of verbal artistry frequently diminish in to obscurity, eclipsed by the continuous assault of sound and distractions. However, located within the lyrical pages of **Virtual Lab Peppered Moth**, a charming work of fictional beauty that pulses with raw feelings, lies an unique trip waiting to be embarked upon. Published by way of a virtuoso wordsmith, that mesmerizing opus manuals visitors on a psychological odyssey, lightly revealing the latent potential and profound affect stuck within the delicate web of language. Within the heart-wrenching expanse with this evocative examination, we shall embark upon an introspective exploration of the book is main styles, dissect its fascinating publishing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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