

ADAPTATIONS AND NATURAL SELECTION

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 countryside 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 $\frac{1}{2}$ change from light to dark. Similar observations have been made in other industrial nations, including the United States.

Instructions:

Click the link below to read more information on Kettlewell's study of moths. Go through the sections Peppered Moth, Natural Selection, Dr. Kettlewell, and How to Play, then Play. Run two simulations for 1 minute each, one with a light forest and one with a dark forest. You will play the part of a blue jay that eats moths. Repeat the simulations 2 more times (for a total of 6 simulations).



PEPPERED MOTHS

Natural selection in action



Peppered Moth

Follow the peppered moth in the light forest to see how it survives - all in one year!



Natural Selection

Find out how the peppered moth survived natural selection in England.



Dr. Kettlewell

Remember, don't forget that there is a dark forest in Kettlewell's study area!



How to Play

Learn to become the predator (blue jay) in the game.



Play

Run the simulation and see how the population changes over time.



ask a BIOLOGIST

Read to learn more about the peppered moth and natural selection.

Life Cycle Of A Peppered Moth Answer

Michael Seilmaier



Life Cycle Of A Peppered Moth Answer:

Delve into the emotional tapestry woven by Crafted by in Experience **Life Cycle Of A Peppered Moth Answer** . This ebook, available for download in a PDF format (Download in PDF: *), is more than just words on a page; it's a journey of connection and profound emotion. Immerse yourself in narratives that tug at your heartstrings. Download now to experience the pulse of each page and let your emotions run wild.

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