

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 Answers

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Peppered Moth Answers:

Embracing the Melody of Expression: An Mental Symphony within **Peppered Moth Answers**

In a world used by displays and the ceaseless chatter of instantaneous interaction, the melodic beauty and psychological symphony created by the published word frequently diminish into the back ground, eclipsed by the constant noise and interruptions that permeate our lives. However, located within the pages of **Peppered Moth Answers** a charming literary value filled with organic thoughts, lies an immersive symphony waiting to be embraced. Constructed by a wonderful musician of language, that interesting masterpiece conducts viewers on a mental trip, well unraveling the concealed melodies and profound affect resonating within each carefully crafted phrase. Within the depths of the emotional assessment, we can explore the book is key harmonies, analyze their enthralling publishing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

https://crm.avenza.com/data/browse/HomePages/Risk_Adjustment_Participant_Guide.pdf

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