

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.

Peppered Moth Virtual Lab Answer Key

S Marginson



Peppered Moth Virtual Lab Answer Key:

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