

# 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](http://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 Answers Key

**Lingsheng Yao**

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.

### **Peppered Moth Simulation Answers Key:**

*The Computer in the Science Curriculum* Janet J. Woerner, Robert H. Rivers, Edward L. Vockell, 1991      *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      *Environment Abstracts Annual* ,1992  
This database encompasses all aspects of the impact of people and technology on the environment and the effectiveness of remedial policies and technologies featuring more than 950 journals published in the U S and abroad The database also covers conference papers and proceedings special reports from international agencies non governmental organizations universities associations and private corporations Other materials selectively indexed include significant monographs government studies and newsletters      *Bibliography of Agriculture with Subject Index* ,1990      *Taking the Peppered Moth with a Grain of Salt* David Wÿss Rudge,1999

## Unveiling the Magic of Words: A Report on "**Peppered Moth Simulation Answers Key**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Peppered Moth Simulation Answers Key**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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