

# 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 Answers

**Richard Bailey**



## **Peppered Moth Answers:**

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This book delves into Peppered Moth Answers. Peppered Moth Answers is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Peppered Moth Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Peppered Moth Answers
- Chapter 2: Essential Elements of Peppered Moth Answers
- Chapter 3: Peppered Moth Answers in Everyday Life
- Chapter 4: Peppered Moth Answers in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Peppered Moth Answers. The first chapter will explore what Peppered Moth Answers is, why Peppered Moth Answers is vital, and how to effectively learn about Peppered Moth Answers.
3. In chapter 2, this book will delve into the foundational concepts of Peppered Moth Answers. The second chapter will elucidate the essential principles that must be understood to grasp Peppered Moth Answers in its entirety.
4. In chapter 3, this book will examine the practical applications of Peppered Moth Answers in daily life. The third chapter will showcase real-world examples of how Peppered Moth Answers can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Peppered Moth Answers in specific contexts. The fourth chapter will explore how Peppered Moth Answers is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Peppered Moth Answers. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Peppered Moth Answers.

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