

# 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

**David Wÿss Rudge**



## Peppered Moth Simulation Answers:

The Software Encyclopedia ,1988      **BSCS Biology** ,2002 This program encourages you to investigate how organisms and their behaviors are shaped by their environments You will ask questions about what happens as organisms and their environments interact You will be introduced to the big pictures showing how different local environments fit together to form patterns of life on Earth Foreword      Thinking in Circles About Obesity Tarek K. A. Hamid,2009-09-22 Today s children may well become the first generation of Americans whose life expectancy will be shorter than that of their parents The culprit public health experts agree is obesity and its associated health problems Heretofore the strategy to slow obesity s galloping pace has been driven by what the philosopher Karl Popper calls the bucket theory of the mind When minds are seen as containers and public understanding is viewed as being a function of how many scientific facts are known the focus is naturally on how many scientific facts public minds contain But the strategy has not worked Despite all the diet books the wide availability of reduced calorie and reduced fat foods and the broad publicity about the obesity problem America s waistline continues to expand It will take more than food pyramid images or a new nutritional guideline to stem obesity s escalation Albert Einstein once observed that the significant problems we face cannot be solved at the same level of thinking we were at when we created them and that we would have to shift to a new level a deeper level of thinking to solve them This book argues for and presents a different perspective for thinking about and addressing the obesity problem a systems thinking perspective While already commonplace in engineering and in business the use of systems thinking in personal health is less widely adopted Yet this is precisely the setting where complexities are most problematic and where the stakes are highest      **The Computer in the Science Curriculum** Janet J. Woerner, Robert H. Rivers, Edward L. Vockell, 1991      Journal of Biological Education ,1989      *Would-Be Worlds* John Casti, 1997 There is a new breed of computer simulations known as artificial worlds or would be worlds that allows scientists to create artificial versions of real life phenomena inside their computers Casti explores how these are being used      **Love and Hate: on the Natural History of Basic Behaviour Patterns** Irenäus Eibl-Eibesfeldt, 1971      **Bibliography of Agriculture** ,1990      New Scientist ,1986      *New Scientist and Science Journal* ,1986      A Simulation Model of the Gene Frequency Cline of the Peppered Moth Anne DONNELLY, 1966      **Natural Selection** John Hewitson, 1978      The Peppered Moth ,1968      Taking the Peppered Moth with a Grain of Salt David Wÿss Rudge, 1999      **Of Moths and Men** Judith Hooper, 2002

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

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Peppered Moth Simulation Answers
    - Chapter 2: Essential Elements of Peppered Moth Simulation Answers
    - Chapter 3: Peppered Moth Simulation Answers in Everyday Life
    - Chapter 4: Peppered Moth Simulation Answers in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Peppered Moth Simulation Answers. The first chapter will explore what Peppered Moth Simulation Answers is, why Peppered Moth Simulation Answers is vital, and how to effectively learn about Peppered Moth Simulation Answers.
  3. In chapter 2, the author will delve into the foundational concepts of Peppered Moth Simulation Answers. This chapter will elucidate the essential principles that need to be understood to grasp Peppered Moth Simulation Answers in its entirety.
  4. In chapter 3, the author will examine the practical applications of Peppered Moth Simulation Answers in daily life. This chapter will showcase real-world examples of how Peppered Moth Simulation Answers can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Peppered Moth Simulation Answers in specific contexts. The fourth chapter will explore how Peppered Moth Simulation Answers is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Peppered Moth Simulation 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 Simulation Answers.

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passed down orally for many generations but the athenian tyrant peisistratos established a committee to compile and revise homer s manuscripts in the 6th century bc the oldest complete manuscript of the poem dates

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hey jude was the first beatles song to be recorded on eight track recording equipment the sessions took place at trident studios in central london midway through the recording of the group s self titled double album also known as the white album and led to an argument between mccartney and george harrison over the song s guitar part

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jan 25 2022 last modified on wed 19 oct 2022 10 06 edt paul mccartney s original notes for hey jude are being sold digitally at least by one of john lennon s sons julian lennon has announced details

**hey jude by john lennon and paul mccartney sheet music plus** - Dec 13 2022

the beatles hey jude arranged string trio of violin viola and cello my arrangement differs to some of the other trio arrangements you may find both on this site and elsewhere i have not simply transcribed it from a piano arrangement i e given the tune to the 1st violin and given broken chords or sustaining notes to the other two

**the beatles rare notebook featuring handwritten hey jude** - Nov 12 2022

feb 14 2022 collated from 1967 to 1968 the previously unseen notebook contains preliminary handwritten lyrics for hey jude by paul mccartney a part lyric for sgt peppers lonely hearts club band

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hey jude is a song by the english rock band the beatles that was released as a non album single in august 1968 it was written by paul mccartney and credited to the lennon mccartney partnership

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on this day the beatles continued working on hey jude which was rehearsed the day before they recorded seventeen takes numbered takes 7 23 at the end of the session two tape reductions were created and a rough stereo mix was made so that george martin could work on the song s orchestral score which would be

recording hey jude session the paul mccartney project - Jul 08 2022

after two days of rehearsals and rough takes spent on hey jude the beatles moved from abbey road to trident studios to benefit from the eight track recording facilities and record the song in a proper way from the beatles monthly book september 1968 n 62 then on the wednesday we moved from emi to trident which

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after two days of rehearsals and rough takes at abbey road and a day of proper recording at trident studios on this day the beatles completed the recording of hey jude still at trident studios to benefit from its eight track recording facilities from 5

pm to 8 pm the beatles added overdubs onto take 1

hey jude song facts recording info and more the beatles bible - Sep 22 2023

mar 15 2008 on 26 july 1968 played the song to lennon for the first time it wasn't until 1987 that mccartney came to discuss hey jude with julian lennon after a chance encounter in a new york hotel the recording notes for hey jude were bought at auction by julian lennon in 1996 for 25 000

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feb 14 2022 a notebook containing hand written lyrics to the beatles classic hey jude is to go on display for the first time the book compiled between 1967 1968 features sir paul mccartney's draft of the

**behind the song hey jude by john lennon and paul mccartney** - Apr 05 2022

nov 2 2021 the beatles ballad was originally titled hey jules to more directly address julian but mccartney later changed the song to hey jude to fit the sonic direction

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there was no session on friday july 26 as paul mccartney and john lennon finished writing hey jude as reported by the beatles monthly book september 1968 n 62 on friday july 26 john and paul spent most of the day at paul's house putting the final touches to their latest composition hey jude

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day tripper eight days a week a hard day's night help hey jude let it be love me do nowhere man penny lane something ticket to ride yesterday and more the lyrics 1956 to the present vol two volume set alfred music string duet

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