

# 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

**Ericka Davis Wien**



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

The Peppered Moth Margaret Drabble, 2014-05-01 One hot summer afternoon in South Yorkshire Faro sits at a lecture on genetic inheritance She has travelled from London to the Northern mining town where generations of her family have lived and worked to explore her own past Decades before in the early twentieth century Bessie Bawtry also ponders her place in the world A child of unusual determination and precocious intelligence she longs for the day she will eventually escape the working class life her ancestor would never have dreamt of leaving The Peppered Moth explores the way we are shaped by our environment and ancestry told with elegant prose wry humour and captivating storytelling through the story of one family across generations through the twentieth century Margaret Drabble is writing not about an individual but about a generation or two or more of women This is a sad tale tenderly told embedded in a robust family chronicle Doris Lessing

*Timelines of Nature* DK, 2023-06-01 Discover the fascinating history of our planet with this unique collection of visual timelines Full of exciting visual timelines covering minutes hours days weeks months and years Timelines of Nature reveals our planet's natural history and its life cycles in an entirely new way Beginning at our world's existence children aged 9 will learn how many years it took the Moon to form and witness Earth's continents collide Discover the history of Earth's most spectacular features from the Grand Canyon to the Sahara desert See how life evolved from the first single celled organisms to the extraordinary variety of creatures living today Then we look at life on Earth today Every species on Earth has its own unique story Timelines of Nature reveals these weird and wonderful life cycles through fascinating visual timelines It tells you what's really happening on Earth each minute of every day This beautiful nature book for children features Beautiful timelines teach young readers all about geology plants and animals Each timeline is unique and depicts a different topic such as the story of how whales evolved how the Moon was formed or how a tiger spends its day Feature pages highlight climactic moments in nature for example the butterfly finally emerging from its chrysalis Supporting educational boxes on each page explain key points about nature helping kids to discover more about the world around them Children can marvel at a variety of different timeframes in nature like geological timelines spanning thousands of years a year in the life of a habitat a day in the life of an animal and complete plant life cycles Ever wondered what the mayfly does with its short life In this book you'll find out how it lives as a nymph for two weeks before flying out of the water for just a day in the sky as a mayfly If you've ever thought about how a chimpanzee spends its day how the rainforest changes over 24 hours or how long a kangaroo's pregnancy lasts then this is the book for you Explore the series If you like Timelines of Nature why not check out other our exciting titles in the Timelines series Explore the unique collection of visual timelines which bring big topics to life Discover leaders legends and legacies in Timelines of Black History uncover the past from woolly mammoths to World Wars in Timelines of Everything and explore key milestones and breakthroughs with Timelines of Science **Internal Assessment for Biology for the IB Diploma** Andrew Davis, 2018-08-28 Exam board International Baccalaureate Level IB Diploma

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**Biology for the IB Diploma Third edition** C. J. Clegg, Andrew Davis, 2023-05-05 Developed in cooperation with the International Baccalaureate Trust experienced and best selling authors to navigate the new syllabuses confidently with these coursebooks that implement inquiry based and conceptually focused teaching and learning Ensure a continuum approach to concept based learning through active student inquiry our authors are not only IB Diploma experienced teachers but are also experienced in teaching the IB MYP and have collaborated on our popular MYP by Concept series Build the skills and techniques covered in the Tools Experimental techniques Technology and Mathematics with direct links to the relevant parts of the syllabus these skills also provide the foundation for practical work and internal assessment Integrate Theory of Knowledge into your lessons with TOK boxes and Inquiries that provide real world examples case studies and questions The TOK links are written by the author of our bestselling TOK coursebook John Sprague and Paul Morris our MYP by Concept series and Physics co author Develop approaches to learning with ATL skills identified and developed with a range of engaging activities with real world applications Explore ethical debates and how scientists work in the 21st century with Nature of Science boxes throughout Help build international mindedness by exploring how the exchange of information and ideas across national boundaries has been essential to the progress of science and illustrates the international aspects of science Consolidate skills and improve exam performance with short and simple knowledge checking questions exam style questions and hints to help avoid common mistakes

*Methods for Human History* Patrick Manning, 2020-09-28 This book presents a concise yet comprehensive survey of methods used in the expanding studies of human evolution paying particular attention to new work on social evolution The first part of the book presents principal methods for the study of biological cultural and social evolution plus migration group behavior institutions politics and environment The second part provides a chronological and analytical account of the development of these methods from 1850 to the present showing how multidisciplinary rose to link physical biological ecological and social sciences The work is especially relevant for readers in history and social sciences but will be of interest to readers in biological and ecological fields who are interested in exploring a wide range of evolutionary studies

*Language Power: Grades 6-8 Level A Teacher's Guide* Ericka Davis Wien, 2012-10-30

*Hard-to-teach Biology Concepts* Susan Koba, Anne Tweed, 2009 The book is not a prescribed set of lessons plans Rather it

presents a framework for lesson planning shares appropriate approaches for developing student understanding and provides opportunities to reflect and apply those approaches to the five hard to teach topics      Nature's Last Dance Natalie Kyriacou,2025-08-26 Amidst the tragedy of wild species extinction lies a hidden world of survival and wonder Conservationists are embroiled in a high stakes clash with a drug cartel to save a porpoise Scientists are fighting to save a flightless bird that romances rocks Unconventional animals are upending 21st century beauty standards and financiers are betting on whale poo to make its debut on Wall Street This is a story of survival and extinction of life and death of curiosity and perversion of unimaginable joy and harrowing sorrow Set against the backdrop of a rapidly unfolding mass extinction event Nature s Last Dance takes readers across hunting grounds through jungles and oceans inside communities through trafficking rings and courtrooms and into the heart of battles to survive against all odds Award winning environmentalist Natalie Kyriacou confronts the extinction crisis with courage and curiosity charting a new course for nature and showing us why it is so worth fighting for      **Creationism's Trojan Horse** Barbara Forrest,Paul R. Gross,2007 The Wedge has intruded itself successfully into educational politics at the local state and now national levels BOOK JACKET      **Games of Life** Karl Sigmund,2017-09-13 An updated edition of the work originally published by Oxford University Press in 1993 With a new chapter

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