

ADAPTATIONS AND NATURAL SELECTION

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 countryside 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 $\frac{1}{2}$ change from light to dark. Similar observations have been made in other industrial nations, including the United States.

Instructions:

Click the link below to read more information on Kettlewell's study of moths. Go through the sections Peppered Moth, Natural Selection, Dr. Kettlewell, and How to Play, then Play. Run two simulations for 1 minute each, one with a light forest and one with a dark forest. You will play the part of a blue jay that eats moths. Repeat the simulations 2 more times (for a total of 6 simulations).



PEPPERED MOTHS

Natural selection in action



Peppered Moth

Follow the peppered moth in the light forest to see how it survives - all in one year!



Natural Selection

Find out how the peppered moth survived natural selection in England.



Dr. Kettlewell

Remember, don't forget that there is a link to the Kettlewell and Natural Selection in the box.



How to Play

Learn to become the predator (blue jay) and the prey (moth).



Play

Run the simulation and see how the moth population changes over time.



ask a BIOLOGIST

Read the book and learn about the peppered moth and natural selection.

Life Cycle Of The Peppered Moth Answers

Poppy Adams



Life Cycle Of The Peppered Moth Answers:

The Peppered Moth Margaret Drabble, 2012-03-29 The prize winning author of *The Dark Flood Rises* offers an absorbing portrait of three generations of women inspired by her own family The New York Times Book Review In the early 1900s young Bessie Bawtry grows up in a mining town in South Yorkshire England Unusually gifted she longs to escape a life burdened by unquestioned tradition She studies patiently dreaming of the day when she will take the entrance exam for Cambridge and leave her narrow world A generation later Bessie's daughter Chrissie feels a similar impulse to expand her horizons which she in turn passes on to her own daughter Nearly a century after that Bessie's granddaughter finds herself listening to a lecture on genetics and biological determinism She has returned to Breaseborough and wonders at the families who remained in the humble little town where Bessie grew up Confronted with what would have been her life had her grandmother stayed she finds herself faced with difficult questions Is she really so different from the plain South Yorkshire locals As she soon learns the past has a way of reasserting itself not unlike the peppered moth that was once thought to be nearing extinction but is now enjoying a sudden and unexplained resurgence With *The Peppered Moth* the acclaimed author of *The Seven Sisters* conjures a captivating work of semi fiction grappling with her memory of her own mother and the indelible mark of family and heredity

Laboratory Investigations for Biological Science; Molecules to Man

Biological Sciences Curriculum Study, 1963

Biological Science Biological Sciences Curriculum Study, 1985

Introduction to Population Biology Dick Neal, 2018-11-29 How do plant and animal populations change genetically to evolve and adapt to their local environments How do populations grow and interact with one another through competition and predation How does behaviour influence ecology and evolution This second edition of Dick Neal's unique textbook on population biology addresses these questions and offers a comprehensive analysis of evolutionary theory in the areas of ecology population genetics and behaviour Taking a quantitative and Darwinian perspective Neal uses mathematical models to develop the basic theory of population processes Key features in this edition include new chapters on inbreeding and species interactions and community structure a modified structure in Part II more recent empirical examples to illustrate the application of theoretical models to the world around us and end of chapter problems to help students with self assessment A series of spreadsheet simulations have also been conveniently located online for students to further improve their understanding of such models

Creation Facts of Life Gary Parker, 2006-08 In *Creation Facts of Life* Dr Parker

respectfully describes the evidences he once used to preach evolution but then he explains how the rest of the evidence points away from evolution and toward a perfect world created by God ruined by man restored to new life in Christ The Sister Poppy Adams, 2009-07-07 Born into a long line of distinguished lepidopterists scientists who study moths and butterflies Ginny and Vivien grew up in a sprawling Victorian home Forty seven years later Ginny lives there alone tending to her moths and obsessions amid the ghosts of her past But when her sister Vivien returns to the crumbling family mansion

dark unspoken secrets rise disrupting Ginny's ordered life and threatening the family's fragile peace Told in Ginny's unforgettable voice this debut novel tells a disquieting story of two sisters and the ties that bind sometimes a little too tightly

Competition Science Vision, 2007-09 Competition Science Vision monthly magazine is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India Well qualified professionals of Physics Chemistry Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to the point study material for aspiring candidates The magazine covers General Knowledge Science and Technology news Interviews of toppers of examinations study material of Physics Chemistry Zoology and Botany with model papers reasoning test questions facts quiz contest general awareness and mental ability test in every monthly issue

The Driving Forces of Evolution David Wool, 2006-01-10 To cope with the abiotic stress induced osmotic problems plants adapt by either increasing uptake of inorganic ions from the external solution or by de novo synthesis of organic compatible solutes acting as osmolytes Of the osmoregulators and protectants discussed in this volume trehalose fructans ectoine and citrulline which are generated in different species in osmotically ineffective amounts mitigate the stress effects on cells plants and improve productivity There are several pieces of encouraging research discussed in this volume showing significant improvement in stress tolerance and in turn productivity by involving genetic engineering techniques **Educart** CBSE Class 12 BIOLOGY One Shot Question Bank 2024-25 (Updated for 2025 Exam) Educart, 2024-06-28

Competition Science Vision, 2003-05 Competition Science Vision monthly magazine is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India Well qualified professionals of Physics Chemistry Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to the point study material for aspiring candidates The magazine covers General Knowledge Science and Technology news Interviews of toppers of examinations study material of Physics Chemistry Zoology and Botany with model papers reasoning test questions facts quiz contest general awareness and mental ability test in every monthly issue

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help you build relationships based on genuine Christian compassion so you can share Jesus and his love with them

The History of British Women's Writing, 1970-Present Mary Eagleton, Emma Parker, 2016-04-29 This book maps the most active and vibrant period in the history of British women's writing Examining changes and continuities in fiction poetry drama and journalism as well as women's engagement with a range of literary and popular genres the essays in this volume highlight the range and diversity of women's writing since 1970

Avoiding Attack Graeme D. Ruxton, Tom N. Sherratt, Michael Patrick Speed, 2004-10-21 This book discusses the evolution of the mechanisms by which prey avoid attack by their potential predators and questions how such defences are maintained through natural selection Topics covered include camouflage warning signals and mimicry

Modern Biology V. B. Rastogi, 1997

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