

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

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

Chao Zhang



Peppered Moth Answers:

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Science of Life: Biology Parent Lesson Plan, 2013-08-01 The Science of Life Biology Course Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1 Intro to Science Have you ever wondered about human fossils cave men skin color ape men or why missing links are still missing Want to discover when T Rex was small enough to fit in your hand Or how old dinosaur fossils are and how we know the age of these bones Learn how the Bible's world view not evolution's unites evidence from science and history into a solid creation foundation for understanding the origin history and destiny of life including yours In Building Blocks in Science Gary Parker explores some of the most interesting areas of science fossils the errors of evolution the evidences for creation all about early man and human origins dinosaurs and even races Learn how scientists use evidence in the present how historians use evidence of the past and discover the biblical world view not evolution that puts the two together in a credible and scientifically sound way Semester 2 Life Science Study clear biological answers for how science and Scripture fit together to honor the Creator Have you ever wondered about such captivating topics as genetics the roll of natural selection embryonic development or DNA and the magnificent origins of life Within Building Blocks in Life Science you will discover exceptional insights and clarity to patterns of order in living things including the promise of healing and new birth in Christ Study numerous ways to refute the evolutionary worldview that life simply evolved by chance over millions of years The evolutionary worldview can be found filtered through every topic at every age level in our society It has become the overwhelmingly accepted paradigm for the origins of life as taught in all secular institutions This dynamic education resource helps young people not only learn science from a biblical perspective but also helps them know how to defend their faith in the process

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

The Science Teacher's Activity-A-Day, Grades 5-10 Pam Walker, Elaine Wood, 2010-10-05 A hands on and fun filled resource for teaching science to middle and high school students New in the 5 Minute Fundamentals Series The Science Teacher's Activity A Day Grades 6-12 includes 180 easy five minute hook or sponge activities to capture learners attention and introduce lessons Divided into three units Physical Science Life Science and Earth and Space Science the activities cover topics based on the National Science Education Standards All the book's activities can be done with

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Reason in the Balance Sharon Bailin, Mark Battersby, 2016-02-11 Unlike most texts in critical thinking, *Reason in the Balance* focuses broadly on the practice of critical inquiry, the process of carefully examining an issue in order to come to a reasoned judgment. Although analysis and critique of individual arguments have an important role to play, this text goes beyond that dimension to emphasize the various aspects that go into the practice of inquiry, including identifying issues and relevant contexts, understanding competing cases, and making a comparative judgment. Distinctive Features of the Text: Emphasis on applying critical thinking to complex issues with competing arguments. Inclusion of chapters on inquiry in specific contexts. Attention to the dialogical aspects of inquiry, including sample dialogues. Emphasis on the spirit of inquiry. The Second Edition Features: Updated examples and items of current interest. New dialogues on vaccination, prostitution, and climate change. New material on biases in reasoning, including emotional, psychological, social, and cognitive. The *Reason in the Balance* Website includes: An Appendix on Logic Exercises, Quizzes.

Evolutionary Biology Max K. Hecht, Ross J. MacIntyre, Michael T. Clegg, 2013-06-29 After volume 33, this book series was replaced by the journal *Evolutionary Biology*. Please visit www.springer.com/11692 for further information. Volume 30 brings readers up to date on the investigation of eminent evolutionary biologists and paleobiologists. Contributions explore such topics as: Adaptation in *Drosophila* and the role of cytochrome P450s. Population genetics and species conservation of the cheetah. Germ layer theory. Assymetry in the mammalian skeleton. Genetic diversity of marine fish. The phenomenon of industrial melanism. The variation in lizard cranial kinesis. Other chapters focus on such issues as: overdominance and its relation to higher mutation rate estimates and the use of molecular clocks in determining the rate of nucleotide substitution in higher plants.

Evolution Vs. Creationism Eugenie C. Scott, 2009-08-03 Presents the scientific evidence for evolution and reasons why it should be taught in schools. Provides various religious points of view and offers insight to the evolution-creationism controversy.

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