

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

The Princeton Review



Peppered Moth Answers:

Gate Life Science Zoology [XL-T] Question Answer Book 4000+ MCQ As Per Updated Syllabus Diwakar Education Hub, 2022-09-19 GATE Zoology Life Science Code XL T Practice Sets Part of Life Science XL 4000 Question Answer MCQ MSQ Highlights of Question Answer Covered All 11 Chapters Subjects Based MCQ MSQ As Per Syllabus In Each Chapter Unit Given 350 MCQ MSQ In Each Unit You Will Get 350 Question Answer Based on Multiple Choice Questions MCQs Multiple Select Questions MSQs Total 4000 Questions Answer Explanations of Hard Type Questions Design by Professor JRF Qualified Faculties **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 Bibles 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 *Princeton Review ACT Reading Prep* The Princeton Review, 2022-12-13 Boost your ACT Reading score with this brand new all in one guide filled with complete content review of the Reading section targeted advice from experts and 4 full length practice tests for ACT Reading Techniques That Actually Work Tried and true strategies to help you avoid traps and beat the ACT Reading Test Essential tactics to help you work smarter not harder Tips for pacing yourself and guessing logically Everything You Need for a High Score Expert review of ACT Reading concepts and skills including dual passages Step by step instruction on how to approach ACT Reading passages

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Cognitive Science for Educators: Practical suggestions for an evidence-based classroom Robert Hausmann,2020-02-28 The purpose of this book is to catalyze a conversation between Cognitive Scientists and Educators Toward that end we need a shared vocabulary This book will introduce you to 48 commonly used terms from Cognitive Science **Atheist Universe** David Mills,2006-08-04 Using logic common sense philosophy ethics history and science the author rebuts every argument that claims to prove the existence of God IS THERE REALLY A GOD OR DOES GOD EXIST ONLY IN OUR HEADS IS THE BIBLE TRULY GOD S WORD OR IS IT A JUMBLE OF FANCIFUL MYTHS Atheist Universe details why God is unnecessary to explain the universe s diversity organization and beauty Using simple straightforward logic this book rebuts every argument that claims to prove God s existence A comprehensive primer for countering today s religious dogma Atheist Universe addresses all the historical and scientific questions including What is atheism and why is it so misunderstood If God is a myth then how did the universe appear Without God is there an objective right and wrong What is the meaning of life without God Is there evidence of Jesus s miracles and resurrection Can atheists explain near death experiences and medical miracles Can science and the Bible realistically be reconciled What is the behind the scenes relationship between politics and religion An admirable work Richard Dawkins David s work will be very useful for anyone combating harmful religious beliefs Honest frank and right to the point Albert Ellis Ph D father of modern psychotherapy author of A Guide to Rational Living *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 Princeton Review AP Biology Prep, 2021 The Princeton Review,2020-08-11 Make sure you re studying with the most up to date prep materials Look for the newest edition of this title The Princeton Review AP Biology Prep 2022 ISBN 9780525570530 on sale August 2021 Publisher s Note Products purchased from third party sellers are not guaranteed by the publisher for quality or authenticity and may not include access to online tests or materials included with the original product *Princeton Review AP Biology Prep, 2022* The Princeton Review,2021-12-14 Make sure you re studying with the most up to date prep materials Look for the newest edition of this title The Princeton Review AP Biology Prep 2023 ISBN 9780593450666 on sale August 2022 Publisher s Note Products purchased from third party sellers are not guaranteed by the publisher for quality or authenticity and may not include access to online tests or materials included with the original product Princeton Review AP Biology Prep, 26th Edition The Princeton Review,2023-08-01 Make sure you re studying with the most up to date prep materials Look for the newest edition of this title The Princeton Review AP Biology Premium Prep 27th Edition ISBN 9780593517567 on sale August 2024 Publisher s Note Products purchased from third party sellers are not guaranteed by the publisher for quality or authenticity and may not include access to online tests or materials included with the original product Cracking the AP Biology Exam 2020, Premium Edition Princeton Review,2019-08-06 Cracking the AP Biology Exam 2020 Premium Edition provides students with comprehensive topic reviews of all AP Biology subjects from photosynthesis to genetics to evolution It also includes strategies for all AP Biology question types including grid in and short free response questions and contains detailed guidance on how to write a topical cohesive point winning essay This Premium Edition includes 5 full length practice tests 4 in the book and 1 online for the most practice possible *Princeton Review AP Biology Premium Prep, 2022* The Princeton Review,2021-12-14 Make sure you re studying with the most up to date prep materials Look for the newest edition of this title The Princeton Review AP Biology Premium Prep 2023 ISBN 9780593450659 on sale August 2022 Publisher s Note Products purchased from third party sellers are not guaranteed by the publisher for quality or authenticity and may not include access to online tests or materials included with the original product **Princeton Review AP Biology Prep, 2023** The Princeton Review,2022-08-02 Make sure you re studying with the most up to date prep materials Look for the newest

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those vast hive-like conglomerations of cellular living-units that flower as ... Tennessee Williams - The Glass Menagerie (Scene 7) A moment after the curtain rises, the lights in both rooms flicker and go out.] JIM: Hey, there, Mr Light Bulb ! [AMANDA laughs nervously. LEGEND: 'SUSPENSION ... The Glass Menagerie: Acting Edition: Tennessee Williams A new introduction by the editor of The Tennessee Williams Annual Review, Robert Bray, reappraises the play more than half a century after it won the New York ... The Daily Bible by Smith, F. LaGard The Daily Bible® makes it simple by organizing the whole of Scripture in chronological order, as well as presenting Proverbs topically and the Psalms by themes. The Daily Bible® - In Chronological Order (NIV®) As this unique, chronological presentation of God's story daily unfolds before you, you will begin to appreciate God's plan for your life as never before. The Daily Bible (NIV) As this unique, chronological presentation of God's story daily unfolds before you, you will begin to appreciate God's plan for your life as never before. The Daily Bible - In Chronological Order (NIV) - eBook ... - enable you to focus on specific aspects of God's wisdom. The Daily Bible - In Chronological Order (NIV) - eBook (9780736983211) by F. LaGard Smith. The Daily Bible - F. LaGard Smith The Daily Bible® in chronological order with 365 daily readings with devotional insights by F. LaGard Smith to guide you through God's Word (NIV). Check It Out ... The Daily Bible (NIV) by F. LaGard Smith, Paperback As this unique, chronological presentation of God's story daily unfolds before you, you will begin to appreciate God's plan for your life as never before. The Daily Bible® - In Chronological Order (NIV®) As this unique, chronological presentation of God's story daily unfolds before you, you will begin to appreciate God's plan for your life as never before. 365 Daily Readings In Chronological Order, Paperback New International Version Bible (NIV) arranged chronologically for 365 daily readings ... LaGard Smith is the author of more than 30 books and is the compiler and ... The Daily Bible: In Chronological Order 365 Daily Readings In the hardcover edition of the bestselling and much-loved chronological presentation of the Bible, God's story unfolds before readers each new day, ... The Daily Bible (niv) - By F Lagard Smith (hardcover) As this unique, chronological presentation of God's story daily unfolds ... It's also in chronological order so it's more interesting how it all went in order.