

Lab: Peppered Moth Simulation

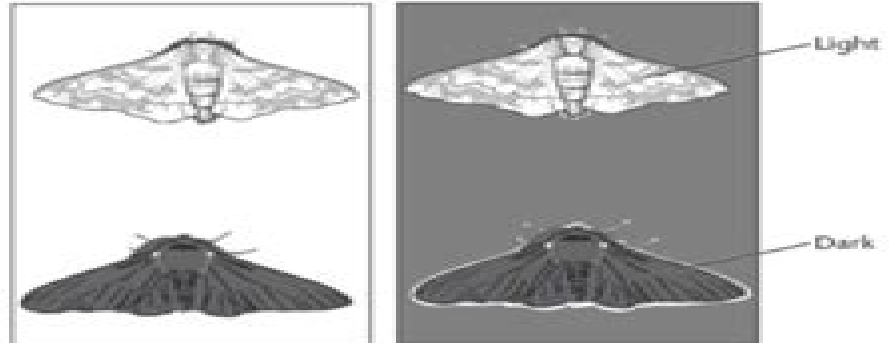
BIOLOGY: CHAPTER 10-PRINCIPLES OF EVOLUTION

Objectives:

- Describe the importance of coloration in avoiding predation
- Relate environmental change to changes in organisms
- Explain how natural selection causes populations to change

Materials

- 8½" x 11" sheet dark background
- 8½" x 11" sheet light background
- Forceps
- Clock with second hand
- 30 light circles (made with hole punch)
- 30 dark circles (made with hole punch)



Purpose: In this lab, you will simulate how predators locate prey in different environments. You will analyze how color affects an organism's ability to survive in certain environments.

Background: The usual form of the peppered moth *Biston betularia* in northern Europe has a light "peppered" pattern of coloration. The moth rests on tree branches and its color pattern **camouflages** it against predatory attack. The camouflage only works against the right background: birds are more likely to eat poorly camouflaged moths, which therefore have a lower **fitness**.

The light coloration of tree branches is mainly caused by lichens that grow there. Smoke pollution in the industrial revolution in the UK killed these lichens near to industrial areas, leaving tree branches black. At about this time, around 1830, a **melanic** form of the peppered moth becomes increasingly common in contemporary moth collections. The melanic form is camouflaged on dark tree branches. Through the 19th century, the melanic form increased in frequency until, near industrial regions, it was the normal type of the moth. The increase was almost certainly driven by natural selection.

The moths satisfy all four conditions for natural selection:

- they reproduce;
- their color pattern is inherited;
- there is variation in their color patterns;
- the different forms have different fitnesses.

Before you begin the lab, complete the hypothesis below:

Hypothesis: If the color of the prey matches the background color then

Peppered Moth Survey Lab Answers

RC Schank



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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

Biology Goodman, 1989 *Biology*, 1999 High School Biology: The laboratory Biological Sciences Curriculum Study, 1961 *Laboratory Investigations for Biological Science; Molecules to Man* Biological Sciences Curriculum Study, 1963

Arrival of the Fittest Andreas Wagner, 2014-10-02 Natural selection can preserve innovations but it cannot create them Nature's many innovations some uncannily perfect call for natural principles that accelerate life's ability to innovate Darwin's theory of natural selection explains how useful adaptations are preserved over time But the biggest mystery about evolution eluded him As genetics pioneer Hugo de Vries put it natural selection may explain the survival of the fittest but it cannot explain the arrival of the fittest Can random mutations over a mere 3.8 billion years really be responsible for wings eyeballs knees camouflage lactose digestion photosynthesis and the rest of nature's creative marvels And if the answer is no what is the mechanism that explains evolution's speed and efficiency In *Arrival of the Fittest* renowned evolutionary biologist Andreas Wagner draws on over fifteen years of research to present the missing piece in Darwin's theory Using experimental and computational technologies that were heretofore unimagined he has found that adaptations are not just driven by chance but by a set of laws that allow nature to discover new molecules and mechanisms in a fraction of the time that random variation would take Consider the Arctic cod a fish that lives and thrives within six degrees of the North Pole in waters that regularly fall below 0 degrees At that temperature the internal fluids of most organisms turn into ice crystals And yet the arctic cod survives by producing proteins that lower the freezing temperature of its body fluids much like antifreeze does for a car's engine coolant The invention of those proteins is an archetypal example of nature's enormous powers of creativity Meticulously researched carefully argued evocatively written and full of fascinating examples from the animal kingdom *Arrival of the Fittest* offers up the final puzzle piece in the mystery of life's rich diversity

Inquiry Skills Development Holt Rinehart & Winston, 1998-01-27 Advances in Insect Physiology, 2019-05-20 *Advances in Insect Physiology* Volume 56 provides readers with the latest interdisciplinary reviews on the topic It is an essential reference source for invertebrate physiologists neurobiologists entomologists zoologists and insect chemists with this new release focusing on the Effects of resource limitation on the strengths of tradeoffs in insect lifecycles The circadian system in insects cellular molecular and functional organization Molecular Physiology of the Insect Midgut The Cryptonephridic system in Lepidoptera Subsocial insects and the physiology of parental care Mechanisms regulating phenotypically plastic traits in wing polymorphic insects and more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the *Advances in Insect Physiology* series

Contains important comprehensive and in depth reviews on insect physiology **Magill's Survey of Science: A-Central and peripheral nervous system functions** Frank Northen Magill,1991 *Intermittent Frontiers* Robert B. Finley,2005

Life is variable and undergoing continual change Studying life sometimes requires viewing it as a condition of steady state with little or no change but we should recognize that such a condition is not natural A more realistic approach is to view life as a system of constant change and to try to understand those changes The explanations for life and especially for evolution lie in the differences and their changes Principles of Ecotoxicology C.H. Walker,R.M. Sibly,D.B. Peakall,2016-04-19

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Encyclopedia of Ecology and Environmental Management ,2009-07-15 The Encyclopedia of Ecology and Environmental Management addresses the core definitions and issues in pure and applied ecology It is neither a short entry dictionary nor a long entry encyclopedia but lies somewhere in between The mixture of short entry definitions and long entry essays gives a comprehensive and up to date alphabetical guide to over 3000 topics and allows any subject to be accessed to varying levels of detail while the longer entries provide general reviews of subjects the short definitions provide specific details on more specialised areas An important feature of the Encyclopedia which sets it apart from other similar works is the comprehensive cross referencing The most comprehensive and up to date reference work in pure and applied ecology Definitions cover the entire spectrum of pure and applied ecological research Distinguished editorial board Dr Peter Moore Professor John Grace Professor Bryan Shorrocks Professor Steven Stearns Professor Don Falk International team of distinguished authors over 200 contributors from 20 countries 3000 headwords defined Over 250 long entries review major topics Heavily illustrated with a section of colour plates Complete one volume guide to pure and applied ecology Presents cutting edge definitions in emerging fields as well as grounding in well established areas of ecology **The Economy of Nature** Robert E. Ricklefs,2008-12-11 The classic introductory text offers a balanced survey of Ecology It is best known for its vivid examples from natural history comprehensive coverage of evolution and quantitative approach Due to popular demand the fifth edition update brings twenty new data analysis modules that introduce students to ecological data and quantitative methods used by ecologists *Competition Science Vision* ,2003-10 Competition Science Vision monthly magazine is published by Pratiyogita

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Bibliography of Agriculture ,1971 **U.S.D.A. Forest Service General Technical Report I.N.T.** ,1984 **Competition Science Vision** ,2002-08 *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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