

Name: _____

Hour: 1 2 3 4 5 6 7

Peppered Moth Simulation

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

Sheet of white paper and newspaper
Foragee
Clock with second hand or stopwatch
30 newspaper circles 30 white circles (made with hole punch)

Purpose

In this lab, you will see what how predators locate prey in different environments. You will analyze how color affects an organism's ability to survive in certain environments. Melanism is when an organism becomes darker. Industrial Melanism is a term used to describe the adaptation of a population specifically in becoming darker in response to pollution. One example of rapid industrial melanism occurred in populations of peppered moths in the area of Manchester, England from 1840 to 1890. Before the industrial revolution, the trunks of the trees in the forest around Manchester were light grayish-green due to the presence of lichens. Most of the peppered moths in the area were light colored with dark spots. As the industrial revolution progressed, the tree trunks became covered with soot and turned dark. Over a period of 40 years, the dark variety of the peppered moth became more common.



| | |
|-------------------|------------|
| Word | Definition |
| Predation | |
| Natural Selection | |
| Foragee | |
| Regulation | |
| Hypothesis | |
| Scientific Theory | |

Peppered Moth Simulation Key

Scott C. Dulebohn

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Peppered Moth Simulation Key:

Journal of Biological Education ,1991 **The Software Encyclopedia** ,1988 **R.R. Bowker's Software for Schools** ,1987 *The Science Teacher* ,1994 **The Computer in the Science Curriculum** Janet J. Woerner,Robert H. Rivers,Edward L. Vockell,1991 *Illinois Chemistry Teacher* ,1992 **Inquiry Skills Development** Holt Rinehart & Winston,1998-01-27 Microcomputers in Education ,1983 Biology ,1999 **Advances in Ecological Research** ,1980-04-25 Advances in Ecological Research **Environment Abstracts Annual** ,1992 This database encompasses all aspects of the impact of people and technology on the environment and the effectiveness of remedial policies and technologies featuring more than 950 journals published in the U S and abroad The database also covers conference papers and proceedings special reports from international agencies non governmental organizations universities associations and private corporations Other materials selectively indexed include significant monographs government studies and newsletters

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Canadian Books in Print ,2001 **The Peppered Moth** ,1968 Taking the Peppered Moth with a Grain of Salt David Wÿss Rudge,1999 **Mechanisms of Colour Change in Larval and Adult Peppered Moths, Biston Betularia** Nicola Edmonds,2010

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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Peppered Moth Simulation Key**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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