

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 (foragee) 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

Didier Musso



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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

Reports of the National Center for Science Education ,2005 The Software Finder ,1983 *Bibliography of Agriculture with Subject Index* ,1993-07 Animal Behaviour Abstracts ,1991 **Bibliography of Agriculture** ,1986

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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