# 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 belped 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:

- 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.
- 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 Simulation Answers**

John Casti

#### **Peppered Moth Simulation Answers:**

The Software Encyclopedia, 1988 **BSCS Biology**, 2002 This program encourages you to investigate how organisms and their behaviors are shaped by their environments You will ask questions about what happens as organisms and their environments interact You will be introduced to the big pictures showing how different local environments fit together to form patterns of life on Earth Foreword The Computer in the Science Curriculum Janet J. Woerner, Robert H. Thinking in Circles About Obesity Tarek K. A. Hamid, 2009-09-22 Today s children may Rivers, Edward L. Vockell, 1991 well become the first generation of Americans whose life expectancy will be shorter than that of their parents The culprit public health experts agree is obesity and its associated health problems Heretofore the strategy to slow obesity s galloping pace has been driven by what the philosopher Karl Popper calls the bucket theory of the mind When minds are seen as containers and public understanding is viewed as being a function of how many scientific facts are known the focus is naturally on how many scientific facts public minds contain But the strategy has not worked Despite all the diet books the wide availability of reduced calorie and reduced fat foods and the broad publicity about the obesity problem America s waistline continues to expand It will take more than food pyramid images or a new nutritional guideline to stem obesity s escalation Albert Einstein once observed that the significant problems we face cannot be solved at the same level of thinking we were at when we created them and that we would have to shift to a new level a deeper level of thinking to solve them Thisbookarques for and presents a different perspective for thinking about and addressing the obesity problem a systems thinking perspective While already commonplace in engineering and in business the use of systems thinking in personal health is less widely adopted Yet this is precisely the setting where complexities are most problematicandwherethestakesarehighest Would-Be Worlds John Casti, 1997 Simulation of the complex forces shaping geopolitics And we take a drive through TRANSIMS a model of the city of Albuquerque New Mexico to discover the root causes of events like traffic jams and accidents Along the way Casti probes the answers to a host of profound questions these would be worlds raise about the new science of simulation Journal of Biological Education ,1989 Love and Hate: on the Natural History of Basic Behaviour Patterns Irenäus Eibl-Eibesfeldt, 1971 Bibliography of Agriculture ,1990 **New Scientist and Science Journal** ,1986 A Simulation Model of the Gene Frequency New Scientist ,1986 Cline of the Peppered Moth Anne DONNELLY, 1966 Natural Selection John Hewitson, 1978 The Peppered Moth Taking the Peppered Moth with a Grain of Salt David Wyss Rudge, 1999 ,1968

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