## 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 Answers**

**Chad Price** 

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

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performance The mammalian eye for example has the function of perceiving and processing light and possession of this property tempts us to claim that token eyes are supposed to perceive and process light That is we tend to evaluate the performance of token eyes against the norm described in the attributed functional property Hence the norms of nature What then are the norms of nature Whence do they arise Out of what natural properties or relations are they constituted In Norms of Nature Paul Sheldon Davies argues against the prevailing view that natural norms are constituted out of some form of historical success usually success in natural selection He defends the view that functions are nothing more than effects that contribute to the exercise of some more general systemic capacity Natural functions exist insofar as the components of natural systems contribute to the exercise of systemic capacities This is so irrespective of the system s history Even if the mammalian eye had never been selected for it would have the function of perceiving and processing light because those are the effects that contribute to the exercise of the visual system. The systemic approach to conceptualizing natural norms claims Davies is superior to the historical approach in several important ways Especially significant is that it helps us understand how the attribution of functions within the life sciences coheres with the methods and ontology of the natural sciences generally Princeton Review Digital SAT Premium Prep, 2026 The Princeton Review, 2025-06-10 THE ALL IN ONE SOLUTION FOR YOUR HIGHEST POSSIBLE SCORE The Princeton Review provides everything you need to master the exam with traditional content review proven SAT strategies and 6 full length practice tests 3 in the book and 3 realistic adaptive tests online Plus get instant score reports and practice with the digital test format with in our exclusive online Student Tools The Princeton Review's Digital SAT Premium Prep 2026 is an all in one resource designed to give students all the tools they need to ace the Digital SAT in one place With this book you ll get Essential Knowledge for the Digital SAT Updated strategies for the digital question types Reading and Writing passages and Math content Proven strategies for both the Reading and Writing and the Math sections Realistic online practice for the new digital test Guidance for using the new on screen calculator Everything You Need for a High Score Comprehensive content review for every SAT subject Hands on experience with all question types Powerful tactics to avoid traps and beat the test Practice Your Way to Excellence 6 full length practice tests 3 in book 3 section adaptive digital tests online Realistic digital interface for online tests just like the real SAT Detailed answer explanations and score reports for all 6 practice tests Bonus online flashcards for key vocabulary and math concepts Plus with SAT Premium Prep 2026 you ll get online access to our exclusive Premium Student Tools portal for an extra competitive edge Online Digital SAT interface that replicates the real test experience 250 online flashcards with key Reading and Writing and Math topics Video lessons covering critical testing strategies and topics Extended how to guide for the digital calculator Video walk throughs for solving a key selection of in book questions Access to school rankings application and financial aid tips and a special SAT Insider admissions guide 4 week 8 week and 12 week study plans

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