

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 Answer Key Techapps

Raffaella Di Napoli

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.

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Table of Contents Peppered Moth Simulation Answer Key Techapps

1. Understanding the eBook Peppered Moth Simulation Answer Key Techapps
 - The Rise of Digital Reading Peppered Moth Simulation Answer Key Techapps
 - Advantages of eBooks Over Traditional Books
2. Identifying Peppered Moth Simulation Answer Key Techapps
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Peppered Moth Simulation Answer Key Techapps
 - User-Friendly Interface
4. Exploring eBook Recommendations from Peppered Moth Simulation Answer Key Techapps
 - Personalized Recommendations
 - Peppered Moth Simulation Answer Key Techapps User Reviews and Ratings
 - Peppered Moth Simulation Answer Key Techapps and Bestseller Lists
5. Accessing Peppered Moth Simulation Answer Key Techapps Free and Paid eBooks

- Peppered Moth Simulation Answer Key Techapps Public Domain eBooks
- Peppered Moth Simulation Answer Key Techapps eBook Subscription Services
- Peppered Moth Simulation Answer Key Techapps Budget-Friendly Options
- 6. Navigating Peppered Moth Simulation Answer Key Techapps eBook Formats
 - ePub, PDF, MOBI, and More
 - Peppered Moth Simulation Answer Key Techapps Compatibility with Devices
 - Peppered Moth Simulation Answer Key Techapps Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Peppered Moth Simulation Answer Key Techapps
 - Highlighting and Note-Taking Peppered Moth Simulation Answer Key Techapps
 - Interactive Elements Peppered Moth Simulation Answer Key Techapps
- 8. Staying Engaged with Peppered Moth Simulation Answer Key Techapps
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Peppered Moth Simulation Answer Key Techapps
- 9. Balancing eBooks and Physical Books Peppered Moth Simulation Answer Key Techapps
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Peppered Moth Simulation Answer Key Techapps
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Peppered Moth Simulation Answer Key Techapps
 - Setting Reading Goals Peppered Moth Simulation Answer Key Techapps
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Peppered Moth Simulation Answer Key Techapps
 - Fact-Checking eBook Content of Peppered Moth Simulation Answer Key Techapps
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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