

Lab: Peppered Moth Simulation

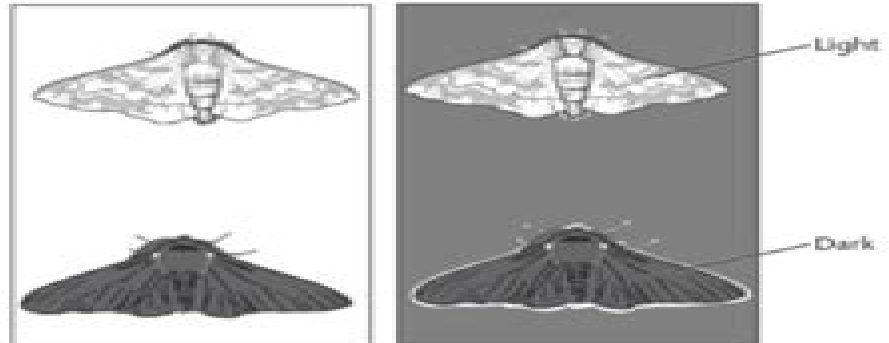
BIOLOGY: CHAPTER 10-PRINCIPLES OF EVOLUTION

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

- 8½" x 11" sheet dark background
- 8½" x 11" sheet light background
- Forceps
- Clock with second hand
- 30 light circles (made with hole punch)
- 30 dark circles (made with hole punch)



Purpose: In this lab, you will simulate how predators locate prey in different environments. You will analyze how color affects and organism's ability to survive in certain environments.

Background: The usual form of the peppered moth *Biston betularia* in northern Europe has a light "peppered" pattern of coloration. The moth rests on tree branches and its color pattern **camouflages** it against predatory attack. The camouflage only works against the right background: birds are more likely to eat poorly camouflaged moths, which therefore have a lower **fitness**.

The light coloration of tree branches is mainly caused by lichens that grow there. Smoke pollution in the industrial revolution in the UK killed these lichens near to industrial areas, leaving tree branches black. At about this time, around 1830, a '**melanic**' form of the peppered moth becomes increasingly common in contemporary moth collections. The melanic form is camouflaged on dark tree branches. Through the 19th century, the melanic form increased in frequency until, near industrial regions, it was the normal type of the moth. The increase was almost certainly driven by natural selection.

The moths satisfy all four conditions for natural selection:

- they reproduce;
- their color pattern is inherited;
- there is variation in their color patterns;
- the different forms have different fitnesses.

Before you begin the lab, complete the hypothesis below:

Hypothesis: If the color of the prey matches the background color then

Peppered Moth Simulation Lab Answer Key

Patrick Vollmar



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Table of Contents Peppered Moth Simulation Lab Answer Key

1. Understanding the eBook Peppered Moth Simulation Lab Answer Key
 - The Rise of Digital Reading Peppered Moth Simulation Lab Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Peppered Moth Simulation Lab Answer Key
 - 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 Lab Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Peppered Moth Simulation Lab Answer Key
 - Personalized Recommendations
 - Peppered Moth Simulation Lab Answer Key User Reviews and Ratings

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