

Procedure:

Go to: <http://www.biologycorner.com/worksheets/pepperedmoth.html>

- Click on the link that takes you to the "Peppered Moth Simulation"
- Read through the life cycle of a peppered moth, and the impact of pollution. Record some point form notes into the spaces below:
- Click on "Bird's Eye View" button and select Light Forest. Run the simulation for 2-3 minutes and record your data in the table below
- Repeat the experiment for the Dark Forest and record your data

Life Cycle of a Peppered Moth:

- avoid predators by flying at night, nesting during day
- camouflaged to look like tree bark and lichen
- eggs hatch during mid-summer; larvae look like branches to hide from predators and can adjust colour to match branches feeding on
- April/May = adult moth (dies at end of summer) only live for 1 year

Impact of Pollution:

- 1900 moths in England 98% dark coloured - WHY?
- Industrial revolution burning coal = dark smoke covering trees/lichen making it dark
- moth colour is genetic: dark colour is mutation in DNA and passed down to offspring because trait is advantageous with dark coloured trees which were more prevalent than white coloured trees
- camouflage of light coloured moths not advantageous (easily seen by predators)

Observations:

Table 1: Percentage of Dark and Light Moths Remaining in Different Environment

	% Light Moths (Before Experiment)	% Dark Moths (Before Experiment)	% Light Moths (After Experiment)	% Dark Moths (After Experiment)
Light Forest	50	50	78	22
Dark Forest	50	50	44	56

Discussion Questions:

1. What trait (dark or light moth) is an **advantageous trait** in the light forest? Why? Which trait is an **advantageous trait** in the dark forest? Why? Use your results to support your answer.

Light Forest: **advantageous trait** = light moths because more difficult to see (see obs. Chart)

Dark Forest: **advantageous trait** = dark moths because more difficult to see (see obs. Chart)

Peppered Moth Simulation Data And Analysis Answers

Scott C. Dulebohn



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Table of Contents Peppered Moth Simulation Data And Analysis Answers

1. Understanding the eBook Peppered Moth Simulation Data And Analysis Answers
 - The Rise of Digital Reading Peppered Moth Simulation Data And Analysis Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Peppered Moth Simulation Data And Analysis Answers
 - 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 Data And Analysis Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Peppered Moth Simulation Data And Analysis Answers
 - Personalized Recommendations
 - Peppered Moth Simulation Data And Analysis Answers User Reviews and Ratings
 - Peppered Moth Simulation Data And Analysis Answers and Bestseller Lists
5. Accessing Peppered Moth Simulation Data And Analysis Answers Free and Paid eBooks
 - Peppered Moth Simulation Data And Analysis Answers Public Domain eBooks
 - Peppered Moth Simulation Data And Analysis Answers eBook Subscription Services
 - Peppered Moth Simulation Data And Analysis Answers Budget-Friendly Options

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