

**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

**Clemens Wendtner**



## **Peppered Moth Simulation Data And Analysis Answers:**

This book delves into Peppered Moth Simulation Data And Analysis Answers. Peppered Moth Simulation Data And Analysis Answers is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Peppered Moth Simulation Data And Analysis Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Peppered Moth Simulation Data And Analysis Answers
    - Chapter 2: Essential Elements of Peppered Moth Simulation Data And Analysis Answers
    - Chapter 3: Peppered Moth Simulation Data And Analysis Answers in Everyday Life
    - Chapter 4: Peppered Moth Simulation Data And Analysis Answers in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Peppered Moth Simulation Data And Analysis Answers. The first chapter will explore what Peppered Moth Simulation Data And Analysis Answers is, why Peppered Moth Simulation Data And Analysis Answers is vital, and how to effectively learn about Peppered Moth Simulation Data And Analysis Answers.
  3. In chapter 2, this book will delve into the foundational concepts of Peppered Moth Simulation Data And Analysis Answers. The second chapter will elucidate the essential principles that need to be understood to grasp Peppered Moth Simulation Data And Analysis Answers in its entirety.
  4. In chapter 3, this book will examine the practical applications of Peppered Moth Simulation Data And Analysis Answers in daily life. This chapter will showcase real-world examples of how Peppered Moth Simulation Data And Analysis Answers can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Peppered Moth Simulation Data And Analysis Answers in specific contexts. This chapter will explore how Peppered Moth Simulation Data And Analysis Answers is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Peppered Moth Simulation Data And Analysis Answers. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Peppered Moth Simulation Data And Analysis Answers.

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