

**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<br>(Before<br>Experiment) | % Dark Moths<br>(Before<br>Experiment) | % Light Moths<br>(After<br>Experiment) | % Dark Moths<br>(After<br>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

**H Kauffman**



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

## **Peppered Moth Simulation Data And Analysis Answers** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Peppered Moth Simulation Data And Analysis Answers**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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## Peppered Moth Simulation Data And Analysis Answers Introduction

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