

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

Emilie Sanchez



Peppered Moth Simulation Data And Analysis Answers:

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