#### 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, resting during day
- -camouflaged to look like tree bank 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	2.2
Dark Forest	50	50	44	5-6

#### Discussion Questions:

 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**

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