

<http://biologycorner.com/worksheets/pepperedmoth.html>

1. Draw a data table similar to the one shown below where data is recorded for moths after 5 minutes of running the simulation.

| | Percent Dark Moths | Percent Light Moths |
|--------------|--------------------|---------------------|
| Light Forest | | |
| Dark Forest | | |

2. Explain how the color of the moths increases or decreases their chances of survival.

3. Explain the concept of "natural selection" using your moths as an example.

4. What would happen if there were no predators in the forest. Would the colors of the moths change over time? Defend your answer.

5. Propose a design for another experiment that tests moth phenotypes in a forest where there are no predators. The limiting factor is food availability for caterpillars (baby moths) and caterpillars with larger mouthparts are able to obtain food faster. What data would researchers take in this experiment to show how natural selection affects the moth populations.