

Natural Selection

Answer Key

Vocabulary: biological evolution, camouflage, Industrial Revolution, lichen, morph, natural selection, peppered moth

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]



Photo by Michael L. Green

The **peppered moth** (*Biston betularia*) is a common moth found in Europe, Asia, and North America. It is commonly found in two forms, or **morphs**: a dark morph and a light, speckled morph. Birds are a frequent predator of the peppered moth.

- Which morph do you think would be easier to see on a dark tree trunk? *Light moths*
- Which morph do you think would be easier to see on a light tree trunk? *Dark moths*

Gizmo Warm-up

The *Natural Selection* Gizmo™ allows you to play the role of a bird feeding on peppered moths. The initial population of 40 moths is scattered over 20 tree trunks. Click on moths to capture them. Click the **Next tree** button or hit the **spacebar** on your keyboard to advance to the next tree.

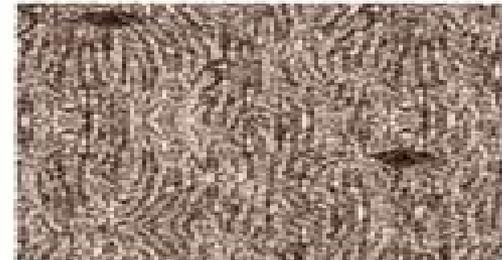
- Check that **LIGHT TREES** is selected. Click **Start** and hunt moths for one year.

A. How many dark moths did you capture? *Results will vary.*

B. How many light moths did you capture? *Results will vary.*

C. **Camouflage** is coloring or patterns that help an organism to blend in with the background. Which type of moth is better camouflaged on light bark? *Light moths*

- If a forest contained mostly light-colored trees, which type of moth would you expect to be most common? *Light moths would be more common because they are better camouflaged.*



How many moths can you find?

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Ensheng Dong



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