

Biology

GIZMO - Natural Selection

60 Points

Directions: Navigate to explorelearning.com, log in, and click on Natural Selection Gizmo.

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

Prior Knowledge Questions (Let's check what you know about this Gizmo.)

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.

1. Which morph do you think would be easier to see on a dark tree trunk? (1)

A Light Speckled Moth

2. Which morph do you think would be easier to see on a light tree trunk? (1)

A Dark Speckled Moth



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 the **spacebar** on your keyboard) to advance to the next tree.

3. Check that **LIGHT TREES** is selected. Click **Play** (▶), and hunt moths for one year.

- A. How many dark moths did you capture? (1)

4

- B. How many light moths did you capture? (1)

2

- C. **Camouflage** is coloring or patterns that help an organism to blend in with the background.

Why do you think a moth is better camouflaged on light bark? (1)

On light bark, the light speckled moth is more camouflaged.



Moth Gizmo Answer Key

Thomas Griffiths

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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India Today International ,2000

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