

## Biology

### GIZMO - Natural Selection

60 Points

Directions: Navigate to [explorelearning.com](https://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 use what you know about the 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 game of survival 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 is a dark moth easier to camouflage on light bark? (1)

On a light tree, the dark, the light speckled color is more camouflaged.



# Moth Gizmo Answer Key

**K Payea**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located on the right side of the light blue bar.

**Moth Gizmo Answer Key:**

*India Today International ,2000*

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