

Name: _____

Date: _____

Student Exploration: Natural Selection

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

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

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



Photo by Mission Science

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?
A lighter color moth
2. Which morph do you think would be easier to see on a light tree trunk?
A dark colored moth

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.

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

- A. How many dark moths did you capture? 10
- B. How many light moths did you capture? 11

- 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 colored moth

2. If a forest contained mostly light-colored trees, which type of moth would you expect to be most common?

I would think that the light colored moth is the most common in lighter colored trees.



How many moths can you find?

Natural Selection Gizmo Answer

D Siedentop

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'D Siedentop' text.

Natural Selection Gizmo Answer:

Natural Selection Gizmo Answer Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Natural Selection Gizmo Answer**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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