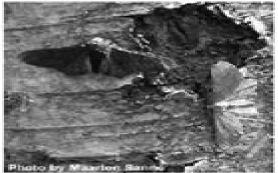
Name:	Date:	

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.)



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?

 A lighter color moth
- 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.

- Check that LIGHT TREES is selected. Click Play (), and hunt moths for one year.
 - A. How many dark moths did you capture?
 - B. How many light moths did you capture?

10



How many moths can you find?

- 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?

5.5

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

Natural Selection Gizmo Answer

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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 is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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