

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Student Exploration: Natural Selection

**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.

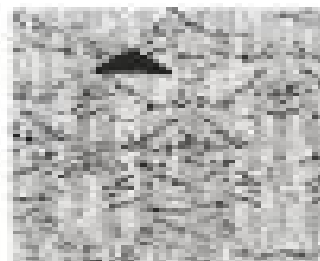
1. Which morph do you think would be easier to see on a dark tree trunk? \_\_\_\_\_
2. Which morph do you think would be easier to see on a light tree trunk? \_\_\_\_\_

### 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 25 tree trunks. Click on moths to capture them. Click the **Next tree** button 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? \_\_\_\_\_
- B. How many light moths did you capture? \_\_\_\_\_



How many moths did 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? \_\_\_\_\_

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

### Activity A: Light trees

#### Get the Gizmo ready:

- Click **Reset** (↺).
- Check that the **LIGHT TREES** tab is selected.



**Introduction:** Before the 19<sup>th</sup> century in England, the air was very clean. The bark on trees was usually light in color. Abundant **lichen** growing on tree trunks also lightened their appearance.

**Question:** How does the color of a peppered moth affect survival?

1. **Predict:** Over time, what will happen to the populations of light and dark moths on light trees?

# Natural Selection Gizmo Answer Key

**Padhraic Smyth**

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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