Gizmos

Name: Date:

Student Exploration: Forest Ecosystem

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

Vocabulary: consumer, decomposer, inorganic, organic, organism, population, producer

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

1. When a rancher puts cattle in a pasture, what happens to the amount of grass in it?

   The grass will get shorter or disappear since cows eat grass

2. If someone adds thousands of small fish to a lake, how would the number of big fish change?

   The population of the big fish will increase because the big fish eat little fish.

Gizmo Warm-up

The *Forest Ecosystem* Gizmo shows you the effects of adding **organisms** to, or taking them from, a forest. An organism is any living thing. To start, do the following:

- Click **Advance year** a couple times to see two years of growth.
- Remove all **Deer** from the forest by clicking the minus (-) button until none remain.
- Click **Advance year** a couple more times.

1. Select the DATA tab. Select **Pictograph** and click the **Tree** to show the size of the tree **population** for the past several years.

   A. How did removing deer affect the tree population? Tree population increased

   B. Why do you think this happened? No deer eating trees

2. Under **Choose organism**, select the **Mushroom**.

   A. How did losing deer affect the mushrooms? Mushrooms increased

   B. Explain why this may have happened. No deer eating mushrooms

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Student Exploration Forest Ecosystem Gizmo Answer Key

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