Project Learning Tree®

Name:_____ Date:_____

Energy in Ecosystems – Pre-Assessment

WHAT DO YOU KNOW?

These questions will help you and your teacher see what you already know about energy in ecosystems. You will not be graded on your answers. Do your best!

Match the following words to their definitions:

1 **Decomposer**

2 **Ecosystem**

3 **Food Web**

4 **Habitat**

5 **Invasive Species**

6 **Organism**

7 **Photosynthesis**

A The place where a plant or animal lives.

B An individual plant, animal, or other life form.

C The way that plants make their food.

D An organism that eats dead plant or animal matter.

E A community of plants and animals, and the nonliving things that affect them.

F A plant or animal that causes harm when it enters a new ecosystem.

G A model showing who eats what in an ecosystem.

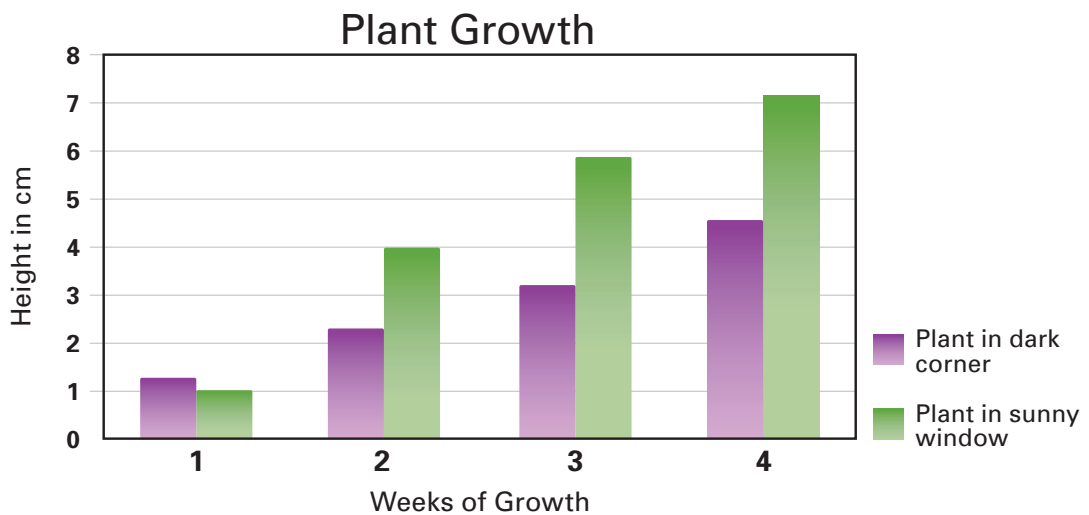**8** **Imagine that you drink a glass of milk. Which food chain shows the transfer of energy to you?**

a. Sun → Grass → Person → Cow

c. Sun → Grass → Cow → Person

b. Cow → Person → Sun → Grass

d. Person → Grass → Cow → Sun

9 **Which of the following is necessary for photosynthesis to happen?**

a. Plant fertilizer

c. A camera

b. Sunlight

d. None of the above

10 Kai and Dakota conduct an investigation on plants. They place one of the plants in a bright, sunny window and one in a dark corner of their classroom. They measure their plants every week. The graph below shows their results.

Plant Growth

Height in cm (y-axis, 0 to 8)

Weeks of Growth (x-axis: 1, 2, 3, 4)

Legend: Plant in dark corner; Plant in sunny window

Which plant grew the most between Week 1 and Week 4?

a. The plant in the sunny window.   **b.** The plant in the dark corner.   **c.** They both grew the same amount.

11 **Circle True or False: Tree A is older than Tree B.**   True   False

Tree A   Tree B

12 **Invasive species usually**

   a. Produce lots of seeds or eggs.   **b.** Can live in lots of different conditions.

   c. Grow quickly.   **d.** All of the above.