Every organism in an ecosystem is either eating or being eaten. When cows eat grass, they obtain some of the energy that the grass transferred from the sunlight it absorbed. If cows could carry out photosynthesis, would they have access to more energy than they get as herbivores? Which organisms in an ecosystem require the most energy to sustain life

# Model 1 - Pyramid of Energy

Values in the pyramid are per square meter per year.

24 kcal Hawk (carmivore)

470 kcal Blue jays (omnivore)

4,000 kcal Caterpillan (berbivore)

Oak tree leaves (producer)

Sunlight hitting Earth's surface = 3,390,000 kcal

A unit used to measure energy is the keal.

a. What is the source of all energy in the pyramid in Model 1?

b. How much energy does this source provide to a square meter of the Earth per year? The sun
\_\_\_\_3,190,000\_\_\_\_keal

- Match the pyramid levels in Model 1 with the following: primary producers, primary consumers, secondary consumers, and tertiary consumers.
  - a. Oak Tree Leaves

b. Caterpillars

c. Blue Jays

d. Hawks

rimary producers
Primary consumers
Secondary consumers
Tertiary consumers

3. The arrows in Model 1 represent the energy available to the next level of the pyramid.

a. What percentage of the source energy from Question 1a is absorbed by the oak leaves in Model 1?

b. By what process do the oak leaves harness this energy?

8% photosynthesis

# **Ecology Pogil 3 Answer Key**

Neeraj Nachiketa

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