

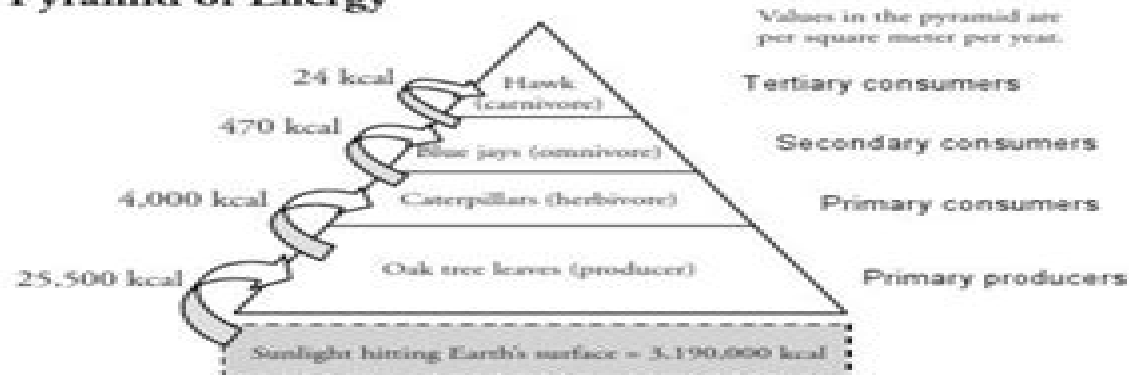
Ecological Pyramids

How does energy flow through an ecosystem?

Why?

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



- A unit used to measure energy is the **kcal**.
 - What is the source of all energy in the pyramid in Model 1?
The source of energy is the sun.
 - How much energy does this source provide to a square meter of the Earth per year? (Be sure your answer includes units.)
3190000kcal per square meter per year
- Label the pyramid levels in Model 1 with the following: primary producers, primary consumers, secondary consumers, and tertiary consumers.
- The arrows in Model 1 represent the energy available to the next level of the pyramid.
 - What percentage of the source energy from Question 1a is absorbed by the oak leaves in Model 1?
The percentage of energy that is absorbed by the oak leaves is 0.799kcal.
 - By what process do the oak leaves harness this energy?
The oak leaves harness energy through photosynthesis.

Ecological Pyramids Answer Key

Victor M. Corman

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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