

AP Biology Lab 10: Energy Dynamics

<http://study.com/academy/lesson/lab-10-energy-dynamics.html>

Introduction:

Energy is essential for life. Energy flows through biochemical pathways within cells but also flows from one organism to another as food. Energy enters into a food web either as solar energy captured as part of photosynthesis or as chemical energy captured by chemosynthetic bacteria in specialized ecosystems. No matter the source, this energy is used to create complex energy rich macromolecules which are either used immediately to maintain homeostasis or are stored for later use. Consumers feed on organisms in order to acquire complex energy rich macromolecules for their own needs. This investigation demonstrates how ecologists determine the flow of energy along a simple food chain.

Background

Food chains and food webs are pictorial representations of the flow of energy from one organism to another (see Figure 1). Most often these diagrams focus on a food chain being based on the sun's energy being captured by photosynthesis. A similar chain forms in some of the deepest areas of Earth where chemosynthetic bacteria capture energy from sulfur vents on the sea floor and other harsh environments. Since the sun food chain is the most common, that is the one we will focus on in this investigation.



Figure 1

Determining the amount of energy available is not as simple as measuring the amount of light energy that hits Earth's surface. Some ecosystems are more efficient than others when it comes to capturing energy. Aquatic ecosystems are vast but capture 1% or less of the sun's energy that falls on the oceans. Tropical rain forests are able to capture up to 3%. The rest of the energy becomes heat. But how were these numbers determined? Special solar energy meters only measure the energy in the wavelengths used for photosynthesis were developed many years ago. These expensive meters measure the maximum energy available but are useless in determining the actual energy captured in the ecosystem.

In order to determine the actual amount of energy captured, scientists must measure the dry mass of all life within that ecosystem. The mass is converted to energy using calories per gram, a known constant for each organism. This will be discussed in depth later in the lab. Since ecosystems are complex, scientists harvest part of the ecosystem or use a simplified model system to make an estimate of the whole.

A great place to start is with plant life. Plants use water, carbon dioxide, trace nutrients, and light to grow and carry out metabolic functions. Plants convert these raw materials into macromolecules, which have mass and store energy. Gross primary productivity is a measure of the total amount of energy converted by plants during photosynthesis and includes accounting for the energy in waste products of photosynthesis and respiration. This is not easily measured because the waste products are oxygen and carbon dioxide. Scientists are generally interested in the amount of energy available to the next trophic level, or net primary productivity. The total mass of all the plants in the ecosystem at a given time is the biomass of the ecosystem. The added dry biomass that grows within a measured area over a specific amount of time is the net primary productivity. This is reported in grams per square meter per week, or as kilograms per square meter per year, depending on the type of ecosystem and nature of the study.

When plants grow from tiny seeds to large organisms, it may seem that they create mass from nothing. However, the law of conservation of mass states that mass cannot be created or destroyed simply rearranged into different molecules. Where does the dry mass come from? Living things are carbon-based organisms; fats, carbohydrates, and proteins are

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Mary Wuerth



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