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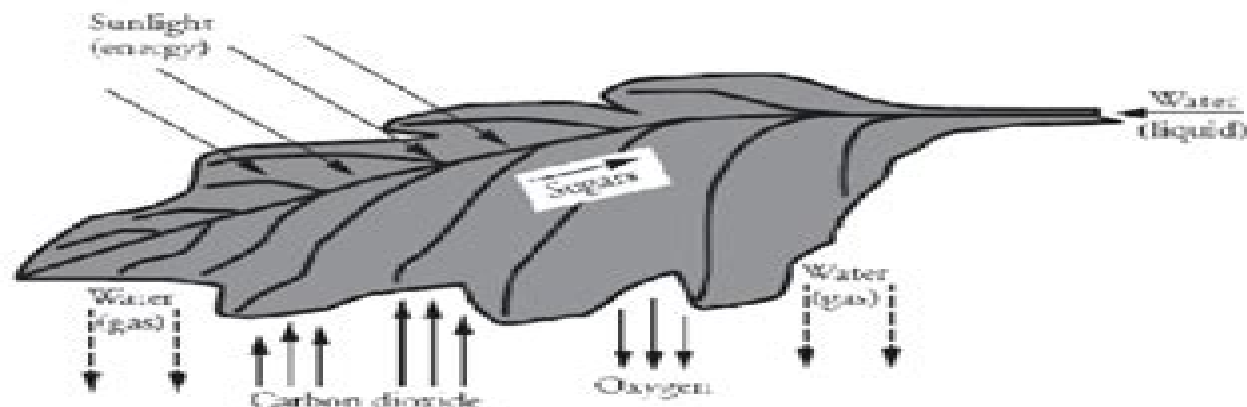
Photosynthesis: What's in a Leaf?

What is the relationship between structure and function in a leaf?

Why?

What would the world be like without leaves—no grass for ball fields, no beautiful landscaping? It would also mean no oxygen for animals and no food for heterotrophs. Leaves are like living machines that recycle the carbon and oxygen in our environment. This process, driven by the sun's energy, allows for a constant supply of oxygen and food for the inhabitants of Earth.

Model 1 – Leaf Sun-Catcher



General Equation for Photosynthesis



1. List **three** things entering the leaf in Model 1.

_____, _____, and _____

2. List **three** substances leaving the leaf.

Pogil Biology Answers Photosynthesis Whats In A Leaf

William W. Adams III, Ichiro Terashima



Pogil Biology Answers Photosynthesis Whats In A Leaf:

The Leaf: A Platform for Performing Photosynthesis William W. Adams III, Ichiro Terashima, 2018-10-24 The leaf is an organ optimized for capturing sunlight and safely using that energy through the process of photosynthesis to drive the productivity of the plant and through the position of plants as primary producers that of Earth's biosphere. It is an exquisite organ composed of multiple tissues each with unique functions working synergistically to 1 deliver water nutrients signals and sometimes energy rich carbon compounds throughout the leaf xylem 2 deliver energy rich carbon molecules and signals within the leaf during its development and then from the leaf to the plant once the leaf has matured phloem 3 regulate exchange of gasses between the leaf and the atmosphere epidermis and stomata 4 modulate the radiation that penetrates into the leaf tissues trichomes the cuticle and its underlying epidermis 5 harvest the energy of visible sunlight to transform water and carbon dioxide into energy rich sugars or sugar alcohols for export to the rest of the plant palisade and spongy mesophyll and 6 store sugars and or starch during the day to feed the plant during the night and or acids during the night to support light driven photosynthesis during the day palisade and spongy mesophyll. Various regulatory controls that have been shaped through the evolutionary history of each plant species result in an incredible diversity of leaf form across the plant kingdom. Genetic programming is also flexible in allowing acclimatory phenotypic adjustments that optimize leaf functioning in response to a particular set of environmental conditions and biotic influences experienced by the plant. Moreover leaves and the primary processes carried out by the leaf respond to changes in their environment and the status of the plant through multiple regulatory networks over time scales ranging from seconds to seasons. This book brings together the findings from laboratories at the forefront of research into various aspects of leaf function with particular emphasis on the relationship to photosynthesis.

Dynamics of Leaf Photosynthesis Agu Laik, Vello Oja, 1998 Details a novel approach to dynamic as opposed to steady state analysis of leaf photosynthesis.

Photosynthesis during leaf development Zdeněk Šesták, 1985

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