

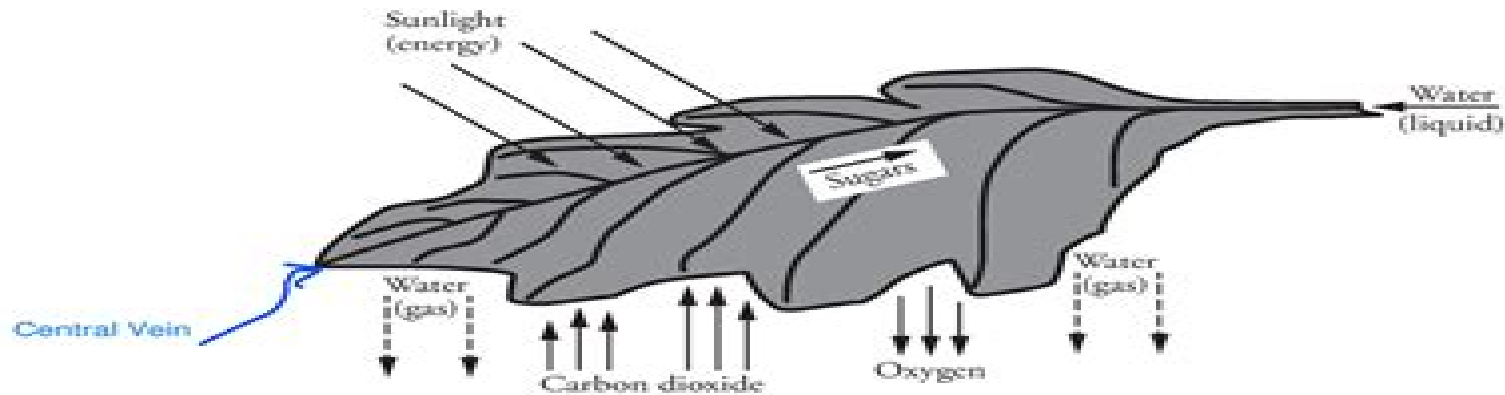
# Photosynthesis: What's in a Leaf?

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.

carbon dioxide, sun energy, water

2. List three substances leaving the leaf.

oxygen, water (gas), sugar

3. Which substance is both entering and leaving?

water in the forms of liquid and gas

4. Veins are important structures that carry materials through the leaf. Label the central vein in the leaf diagram.

# Photosynthesis What S In A Leaf Pogil Answers

**A Laisk,V Oja**



## **Photosynthesis What S In A Leaf Pogil Answers:**

*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* A Laisk, V Oja, 1998-01-01 This book details a novel approach to dynamic as opposed to steady state analysis of leaf photosynthesis by integrating fast responses to Carbon Dioxide Oxygen exchange with optical techniques for fluorescence light scattering and absorbance measurements. It outlines state of the art approaches to the next generation of photosynthetic research in vivo.

Biochemical Models of Leaf Photosynthesis Susanna Von Caemmerer, 2000 Increasing concerns of global climatic change have stimulated research in all aspects of carbon exchange. This has restored interest in leaf photosynthetic models to predict and assess changes in photosynthetic CO<sub>2</sub> assimilation in different environments. This is a comprehensive presentation of the most widely used models of steady state photosynthesis by an author who is a world authority. Treatments of C<sub>3</sub> C<sub>4</sub> and intermediate pathways of photosynthesis in relation to environment have been updated to include work on antisense transgenic plants. It will be a standard reference for the formal analysis of photosynthetic metabolism in vivo by advanced students and researchers.

*Dynamics of Leaf Photosynthesis* Agu Kheinovich Laisk, Vello Oja, 1998 This is the first volume in a series exploring new approaches in plant science research. Each volume features a brief historical background and philosophy of the approach.

detailed methods and sources of materials in an international context the objectives methodologies and difficulties of the application and illustrations of examples from contemporary literature Where appropriate laboratory exercises for students are also included     **Photosynthesis during leaf development** Zdeněk Šesták,1985

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