

Name _____

Period _____

Regents Biology

Date _____

LAB _____ LEAF STRUCTURE

Plants are incredible organisms! They can make all their own food from the simple inputs of

- sunlight
- air (carbon dioxide)
- water
- minerals

This biological wizardry is accomplished through the magic of photosynthesis. This process can be summarized by the equations below.



or the process can be written as:



This means that plants are able to harness the energy of the sun to turn CO₂ from the air into the carbon-based molecules of life — carbohydrates, proteins, lipids, and nucleic acids.

Plants capture the sun's light within their green leaves. Inside a leaf's cells are green organelles — chloroplasts — which do all this hard work of producing the food that feeds the plant... and, in fact, the whole rest of the world, too!

To do this job best, leaves have evolved a specific structure — 3 types of tissue arranged in layers.

- epidermis
- mesophyll
- vascular tissue

The epidermis is the outer layer of cells that acts like a protective "skin" for the leaf. Covering the epidermis is a waxy coating, called the cuticle, which stops evaporation of water from the leaves thereby helping plants conserve water. In the lower epidermis are openings called stomata surrounded by two cells called guard cells. The stomata act like the lungs of the plant in that they allow gas exchange — letting CO₂ into the inner plant tissues for photosynthesis and then allowing O₂ out as a waste product of photosynthesis.

The mesophyll is the main inner leaf tissue making up the blade of the leaf. Most of the photosynthesis of the plant takes place in the mesophyll. The mesophyll in the upper part of the leaf is made up of tightly packed cells, full of chloroplasts, and is called the palisade layer. The mesophyll in the lower part of the leaves is made up of loosely packed cells and is called the spongy layer.

The vascular tissue functions like the circulatory system of the plant. The xylem carries water from the roots to the leaves and to the other upper parts of the plant. The phloem carries the sugars produced during photosynthesis in the chloroplasts of the leaves to any place else in the plant that needs the food. Xylem and phloem are found in vascular bundles in the veins of the leaf.

Lab Leaf Structure Carbon Dioxide Answers

M Lipman



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