

# Photosynthesis

How do light-dependent and light-independent reactions provide food for a plant?

## Why?

Plants are the original solar panels. Through photosynthesis a plant is able to convert electromagnetic (light) energy into chemical energy. This energy is used not only to keep the plant alive, but also to sustain all creatures that rely on the plant for food and shelter. Plants and photosynthetic algae are also the source of all oxygen on Earth, allowing the inhabitants of Earth to benefit from our most plentiful renewable energy resource.

## Model 1 – Chloroplast



1. Consider the organelle illustrated in Model 1.
  - a. What is the name of this organelle?  
A chloroplast
  - b. Is this organelle more likely to be found in animal cells or plant cells?  
Plant cell
2. The structures inside the organelle in Model 1 are called thylakoids. What compound necessary for photosynthesis is contained in the thylakoids?  
Chlorophyll

# Photosynthesis Pogil Answers Ap Bio

**R.P. Gregory**



## **Photosynthesis Pogil Answers Ap Bio:**

**Photosynthesis** R.P. Gregory, 2012-12-06 Photosynthesis the capture of light energy by living organisms is a simple enough concept but its investigation draws on the resources of disciplines from all fields of science The aim of this text is to provide a clear stimulating and essentially affordable coverage for undergraduate students of biology The activity of science is debate and practical experiment its product is a body of propositions which at any given time reflects the judgment and prejudices of those taking part The value of a proposition is related to the conceivable alternatives and writing it down without its context creates the false impression that science progresses by compilation of an increasing list of absolute truths It does not the facts and figures presented in the following pages have no intrinsic value unless they can be used by the reader to support an argument or point of view In short the reader is urged to respond So what to every item Secondly ideas like other foods should be date stamped science is inseparable from its history I have set out time charts to represent the evolution of our understanding in certain areas I have assumed that the reader is pursuing a course with a content of biochemistry microbiology and plant science or has access to basic texts I have assumed also that common methods such as spectrophotometry chromatography and electrophoresis as well as the techniques of molecular biology will be either part of the same course or in active use nearby *Energy for Life* Betty D. Allamong, Thomas Robert Mertens, 1976

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