

# 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 Worksheet Answers

**R. P. F. Gregory**



## **Photosynthesis Pogil Worksheet Answers:**

*Photosynthesis* G. Garab, 1998 Photosynthesis is a process on which virtually all life on Earth depends To answer the basic questions at all levels of complexity from molecules to ecosystems and to establish correlations and interactions between these levels photosynthesis research perhaps more than any other discipline in biology requires a multidisciplinary approach Congresses probably provide the only forums where progress throughout the whole field can be overviewed The Congress proceedings give faithful pictures of recent advances in photosynthesis research and outline trends and perspectives in all areas ranging from molecular events to aspects of photosynthesis on the global scale The Proceedings Book a set of 4 or 5 volumes is traditionally highly recognized and intensely quoted in the literature and is found on the shelves of most senior scientists in the field and in all major libraries *Photosynthesis* R. P. F. Gregory, 1989

**Photosynthesis** Alvin Silverstein, Virginia B. Silverstein, Laura Silverstein Nunn, 1998 What is the most important scientific process that takes place on Earth Many scientists would answer photosynthesis This process has made our planet livable for millions of species by providing the materials and the energy that Earth's creatures need Well known science writers Alvin and Virginia Silverstein and Laura Silverstein Nunn explain how photosynthesis works how living creatures on our planet use it and how it relates to the greenhouse effect and global warming The authors also reveal current research on photosynthesis showing ways that scientists can improve food and its availability through genetic engineering increase energy sources and fight fatal diseases such as cancer Book jacket

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