

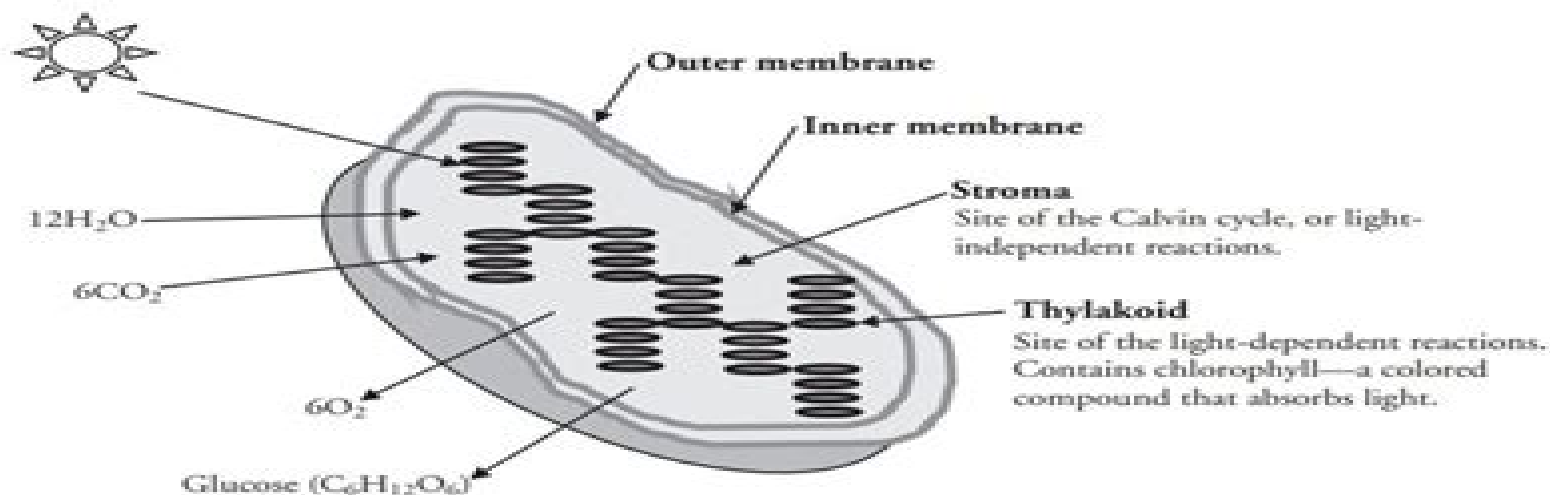
Photosynthesis

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?

The name of this organelle is the chloroplast.

b. Is this organelle more likely to be found in animal cells or plant cells?

This organelle is more likely to be found in plant cells.

2. The structures inside the organelle in Model 1 are called thylakoids. What compound necessary for photosynthesis is contained in the thylakoids?

Chlorophyll is the compound necessary for photosynthesis contained in the thylakoids.

Photosynthesis Packet For Ap Biology Pogil

John William Marklewitz



Photosynthesis Packet For Ap Biology Pogil:

Photosynthesis and Respiration John William Marklewitz, 1995

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