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Photosynthesis

Photosynthesis is the

process that converts

solar energy into

chemical energy □

photosynthesis

nourishes the entire

living world. Occurs in

plants, algae, certain

protists, and some

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prokaryotes Autotrophs
sustain themselves
without eating anything
derived from other
organisms; producers of
the biosphere; produce
organic molecules from
CO₂ + inorganic
molecules; all plants are
photoautotrophs (use
energy from sunlight) to
do this.

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The chloroplasts of
plants use a process
called . photosynthesis.
to capture light energy
from the sun and
convert it to chemical
energy stored in sugars
and other organic
molecules.

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conversion process in
which light energy from

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the sun is captured by
chloroplasts of plants
and converted into
chemical energy stored
in sugar and other
organic...

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photosynthesis. process

by which plants and

some other organisms

use light energy to

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convert water and
carbon dioxide into
oxygen and high-energy
carbohydrates such as
sugars and starches.

$6\text{CO}_2 + 12\text{H}_2\text{O} + \text{Light Energy} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2 + 6\text{H}_2\text{O}$. splitting of water.

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Chapter 10. What are autotrophs and heterotrophs?

Autotrophs are "self-feeders"; they sustain themselves without eating anything derived from other living beings. Heterotrophs obtain their organic material by living on compounds produced by other organisms. 3.

Write out the formula

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for photosynthesis.

carbon dioxide (6CO_2)

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is solar powered. The

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use a process called

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photosynthesis to
capture light energy
from the sun and
convert it to chemical
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and other organic
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Chapter 10: Photosynthesis
The process by which plants convert solar energy into chemical energy.

Autotrophs/Producers
("self-nourishing"): self-sustaining organisms, all materials for making their own food derived from environment.

-ultimate source of all organic materials for all heterotrophs.

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Photosynthesis. This chapter is as challenging as the one you just finished on cellular respiration. However, conceptually it will be a little easier because the concepts learned in Chapter 9—namely, chemiosmosis and an electron transport

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system will play a
central role in
photosynthesis. 1.

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Questions. Dig into the
structure and function of
DNA, a theme that will
recur through this
course. Determine the
properties of water that

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make it so essential for all living things. Not started. Analyze how carbon, nitrogen, and phosphorus are used to build new molecules that are vital for all living ...

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given off during

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interferes with the

absorption of light. D.

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Other pigments absorb light in addition to chlorophyll a. E.

Aerobic bacteria take up oxygen which changes the measurement of the rate of photosynthesis.

15.

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Write out the formula
for photosynthesis (net
consumption of water

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formula). 6CO_2 (Carbon Dioxide) + $6\text{H}_2\text{O}$

(Water) + Light Energy

$\rightarrow \text{C}_6\text{H}_{12}\text{O}_6$ (Glucose) +

6O_2 (Oxygen) 4. Using

^{18}O as the basis for your discussion, explain how

we know that oxygen released in

photosynthesis comes from water.

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