

05/07 Producers and energy #3

Producers are organisms that make their own food using energy from the sun.

What other materials do plants use to make that food?

List the ingredients
in your journal.



I can describe how plants make food using energy from the sun.

water soil air

~~water, soil, and carbon dioxide
water, soil, carbon dioxide.~~

~~sun soil water~~

~~water soil minerals~~

~~soil water carbon dioxide~~

~~water and nutrients from soil~~

~~sunlight soil nutrients water~~

~~water soil~~

~~soil, water, co2~~

sun
water
soil

~~rain, heat, oxygen~~

~~rain heat oxygen~~

Co2 water

Water Carbon Dioxide

water CO2

~~oxygen nutrients CO2~~

~~water nutrients~~

~~water~~

~~water~~

water sun

Water- Carbon dioxide
Water. Soil nutrients. and Sugar soil
Sugars soil water co₂ water carbon dioxide and
water soil water soil sugar water
soil and air, water resources from other air co
water soil, water organisms and soil and water
air soil water minerals nutrients in soil, co₂, v
soil Dirt. Water. Fertilizer
water water
air(co₂) water soil
water, worm dung, minerals water, sugar, mineral nutr
water carbon dioxide soil water
nutrients soil/nutrients
Water and carbon dioxide water and sugar

rients form soil.Co2.water

soil water dirt and water soil water oxegen

sun water soil soil, water, decomp.

water soil co2 nutrence water sunlight soi CO2 water other plants

water co2 soil Water, carbon dioxide, soil

sun water soil ~~dead animals~~ co2 water soil

carbon dioxide ~~soil~~ water soil water ded animals

sun soil water soil water oxygen co2 water soil co2. soil. water

water soil pollen water CO2 soil

chlorophyll. co2

co2 and water

co2, carbon dioxide, water

co2 water co2 sunlight water

~~water, soil, and oxygen.~~

~~water, sun and soil~~

~~water sun soil~~

~~water, sun, and soil~~

~~-Minerals in the soil~~

~~-Energy from sunlight~~

~~-Water~~

~~water oxygen soil~~

~~water sun soil~~

~~water, soil, water soil oxygen~~

~~water soil sun~~

~~WATER AIR DIRT :)~~

~~soil minerals~~

Release
O₂

sunlight water oxygen

~~minerals water sunlight~~

~~co₂. water, minerals(nutrients)~~

water co₂ light

water chemicals air

light water co₂

~~minerals sunlight water~~

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Photosynthesis Reading

Read pages 231 and 232

Exploring Life Science book



Learning

target: I can describe how plants make food using energy from the sun.

Close the book
and try to complete
the photosynthesis
sheet.

231-232



Learning

target: I can describe how plants make food using energy from the sun.

Use the book to
finish the
photosynthesis
sheet.



Learning

target: I can describe how plants make food using energy from the sun.

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Correct the reading activity

The process in which light energy is used to make food has its own special name: photosynthesis. The word *photo* means light and synthesis means to put together.

Photosynthesis is the largest and most important manufacturing process in the world. It is very COMPLEX.

In photosynthesis, the Sun's light energy is captured by chlorophyll, which is a green pigment. Through a complex series of chemical reactions the light energy is used to combine water from the soil with Carbon dioxide from the air.

One of the products of the chemical reaction is food which is generally in the form of a Sugar called glucose.

Glucose can be broken down to release energy. Cells need energy to carry out their life functions. Glucose can also be changed into other chemicals. Some of these chemicals are used by a plants for growth and for repair of its parts. Other chemicals are stored in special areas in the roots and stems.

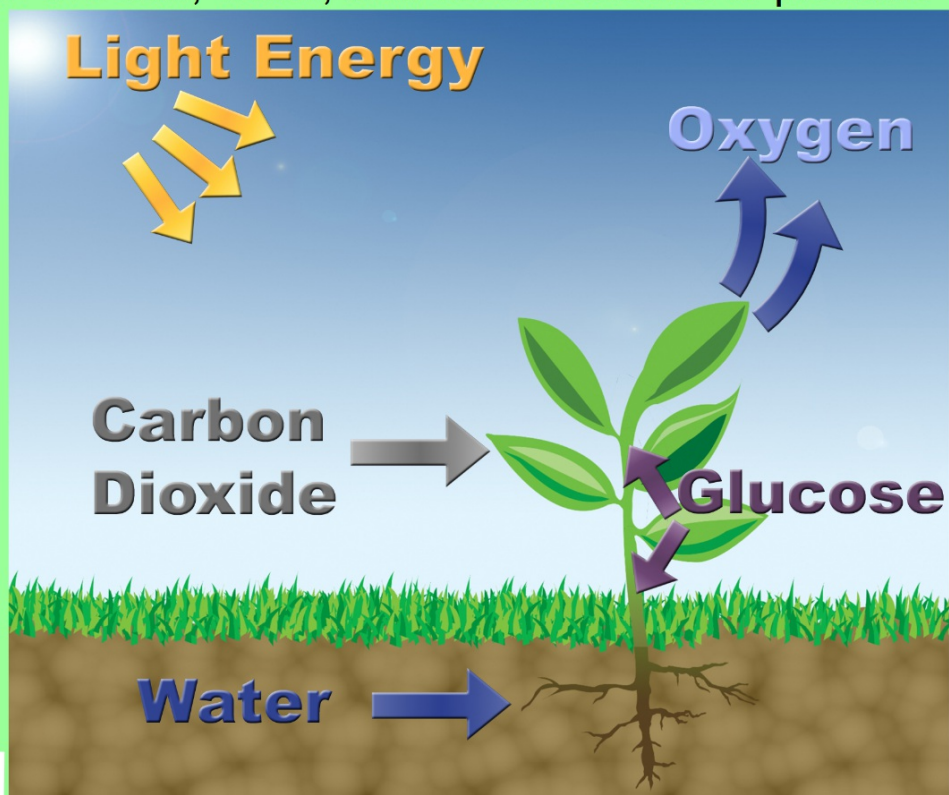
The other product of photosynthesis is oxygen. Oxygen is important to you and to almost every other living thing on Earth.

Most photosynthesis occurs in leaves.



05/07 Producers and energy #3

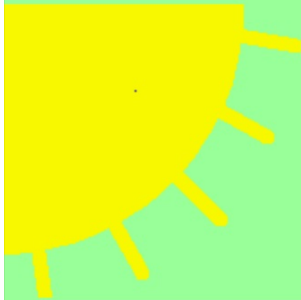
Photosynthesis: The process plants use to combine energy from the sun, water, and carbon dioxide to produce food.



Learning 1

I can describe how plants make food using energy from the sun.

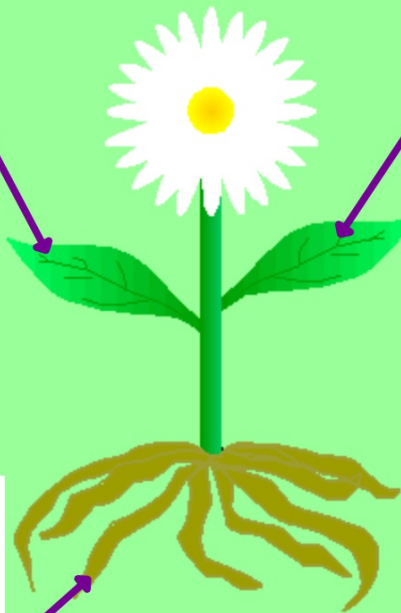
Photosynthesis - How Plants Make Food



Leaves absorb _____ energy from the Sun.

Leaves take in _____ from the air.

The roots take in _____ from the soil.



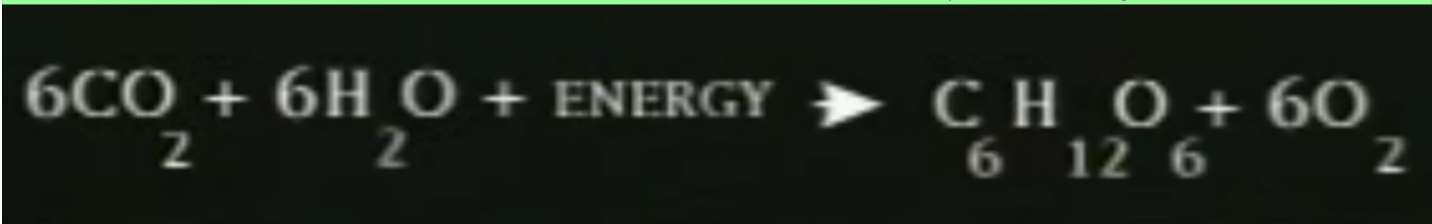
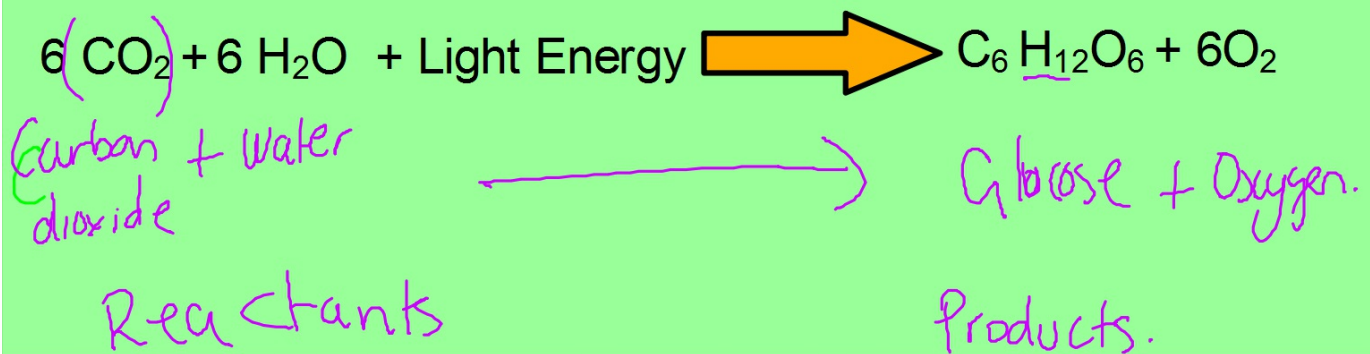
In the leaves the water and carbon dioxide are turned into _____ using light energy from the Sun.

One of the waste products is _____.

I can describe how plants make food using energy from the sun.

05/07 Producers and energy #3

Photosynthesis



Learning target: I can describe how plants make food using energy from the sun.

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Correct the reading activity

The process in which _____ energy is used to make _____ has its own special name:

_____. The word *photo* means _____ and _____ means to put together.

Photosynthesis is the _____ and most important _____ process in the world. It is very _____.

In photosynthesis, the _____ light energy is _____ by chlorophyll, which is a _____ pigment. Through a complex series of _____, the light energy is used to _____ water from the _____ with _____ from the air.

One of the _____ of the chemical reaction is _____, which is generally in the form of a _____ called _____.

Glucose can be broken down to release _____. Cells need energy to carry out their life functions. Glucose can also be changed into other chemicals. Some of these chemicals are used by a _____ for growth and for repair of its parts. Other chemicals are stored in special areas in the _____ and stems.

The other product of _____ is _____. Oxygen is important to _____ and to almost every other living thing on Earth.

Most photosynthesis occurs in _____.

