

03/29 Photosynthesis

#4

Photosynthesis Reading

Read pages 231 and 232

Exploring Life Science book



Learning

target: I can understand how organisms get energy.

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Close the book
and try to complete
the photosynthesis
sheet.



Learning

target: I can understand how organisms get energy.

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Use the book to
finish the
photosynthesis
sheet.



Learning

target: I can understand how organisms get energy.

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Photosynthesis

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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 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 plant 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.

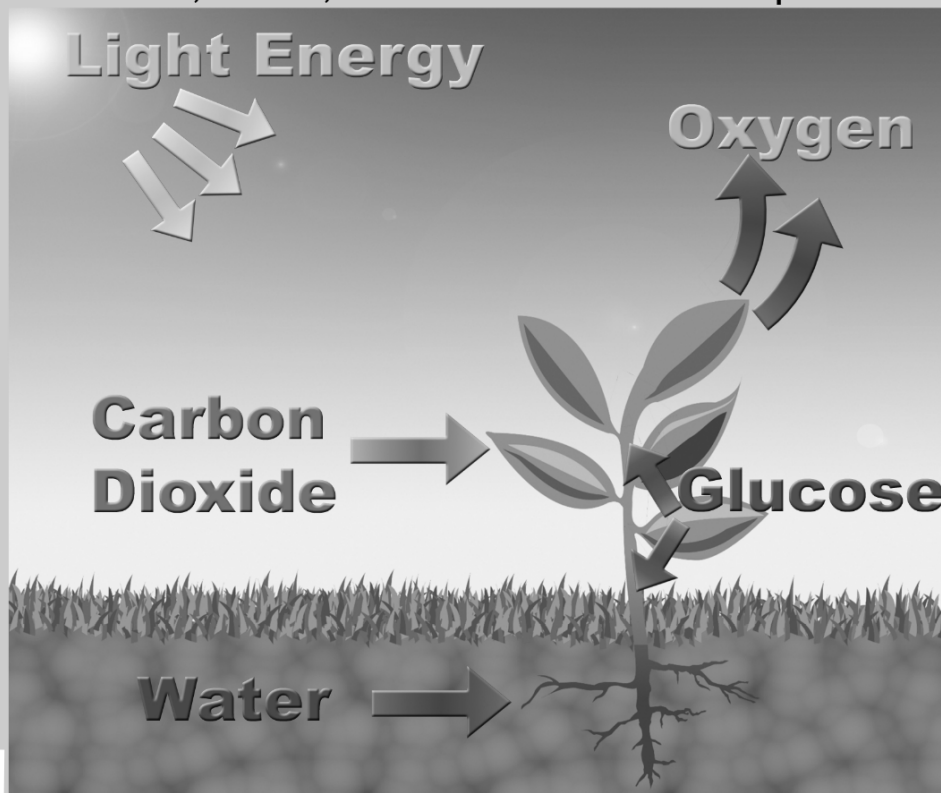
Most photosynthesis occurs in leaves.



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



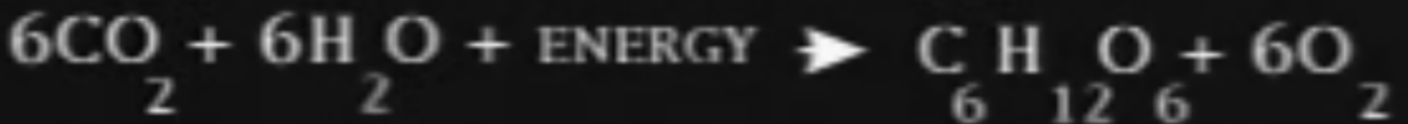
Learning 1

I can make detailed observations of plants and show the detail in an accurate drawing. I can describe photosynthesis.

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Photosynthesis



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

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Photosynthesis

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Correct the
reading
activity

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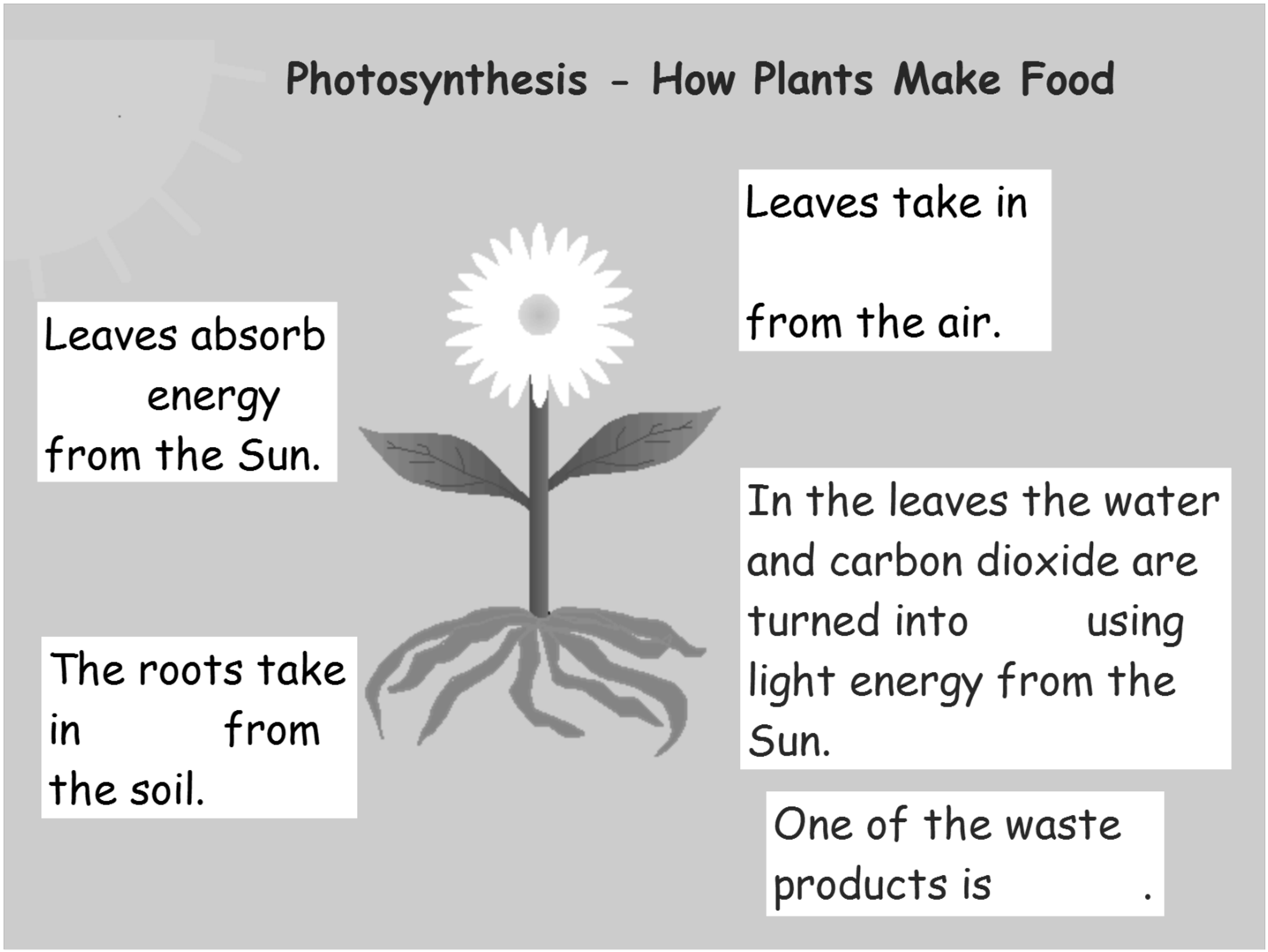
Glucose can be broken down to release energy! Cells need energy to carry out their life functions. Glucose can also be changed into other chemicals. Some of these chemicals are used by a plant for growth and for repair of its parts. Other chemicals are stored in special areas in the roots and stems.

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Photosynthesis - How Plants Make Food



Leaves absorb energy from the Sun.

The roots take in _____ from the soil.

Leaves take in _____ from the air.

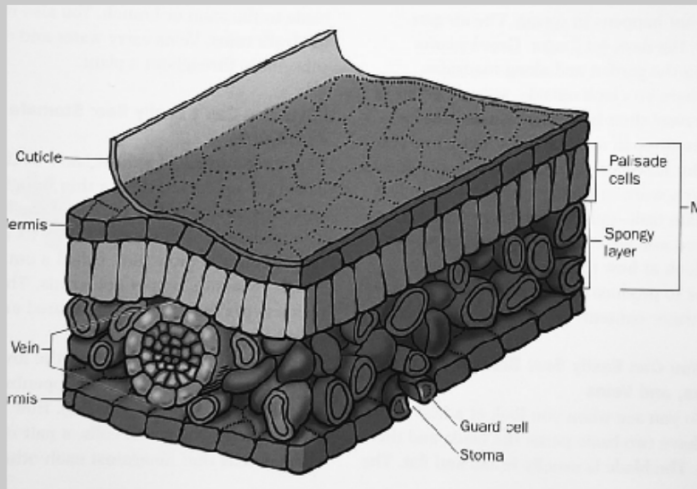
In the leaves the water and carbon dioxide are turned into _____ using light energy from the Sun.

One of the waste products is _____ .



Learning

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

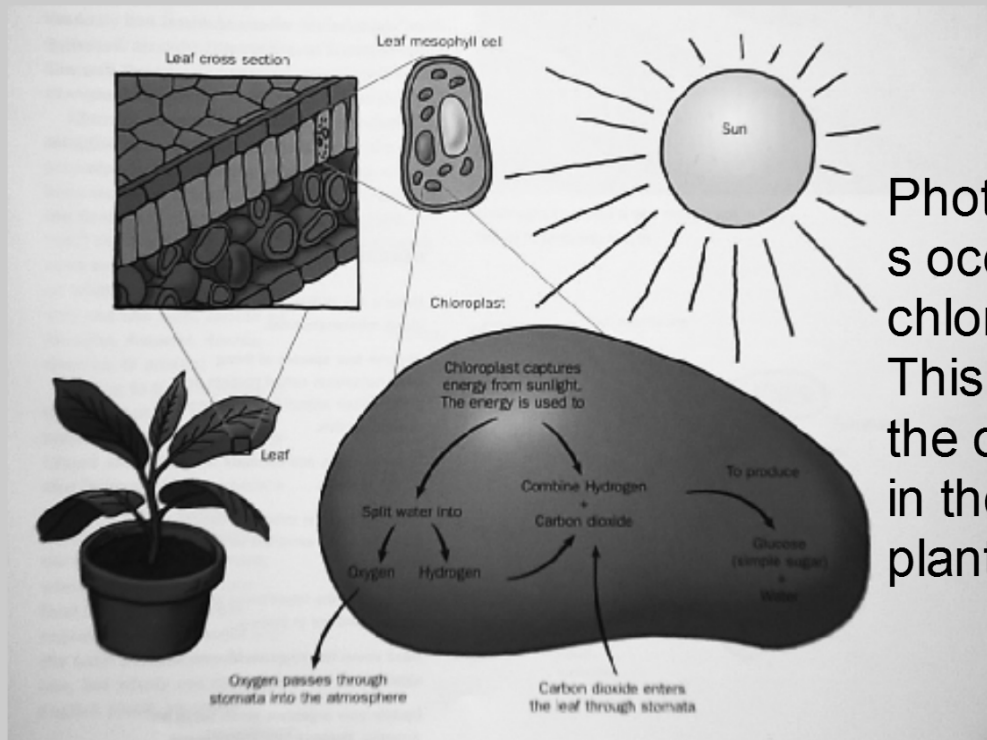


Photosynthesis occurs in the chloroplasts. This is one of the organelles in the cells of plants.



Learning

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



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Learning

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