

Photosynthesis 2



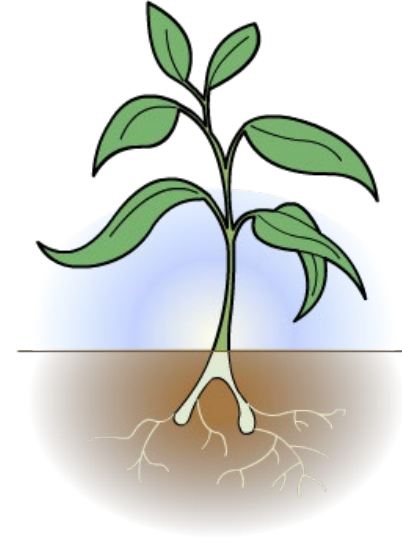
What is photosynthesis?

Plants make their own food by **photosynthesis**.

This process is a chemical reaction that uses **light energy**.



light energy



The word **photosynthesis** comes from the Greek language:

- **'photo'** means **'light'**
- **'synthesis'** means **'putting together'**

Photosynthesis just means **'putting together with light'**.

How do plants produce food from photosynthesis?

Photosynthesis is a chemical reaction that occurs in plants and produces food.

Click "**play**" to find out how and where this reaction takes place.

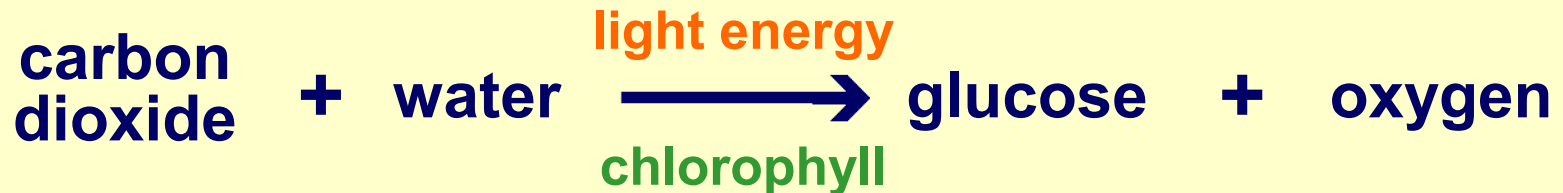


Photosynthesis: summary

How can the process of photosynthesis be summarized in one sentence?

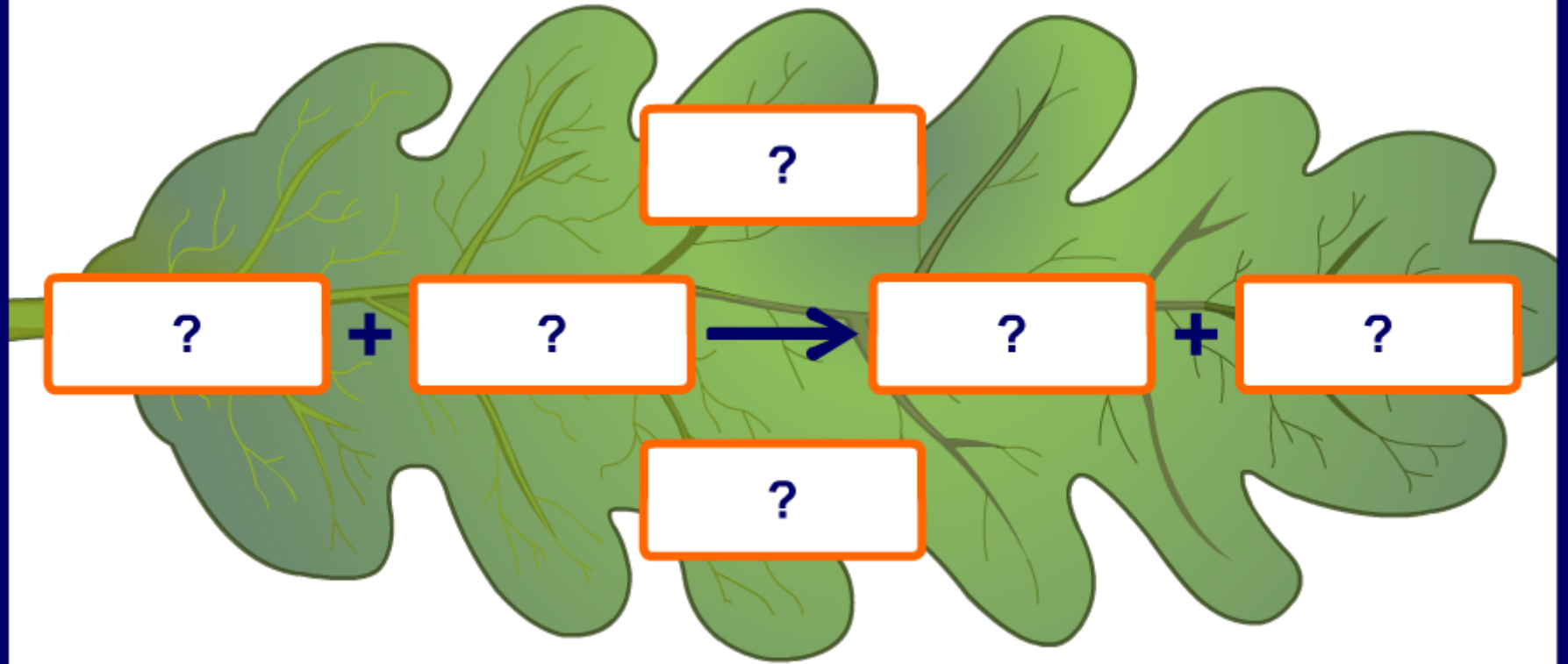
Photosynthesis is a chemical reaction that takes place in the chloroplasts of green plant cells, where light energy is used to convert carbon dioxide and water into glucose and oxygen.

What is the word equation for this chemical reaction?





What is the word equation for photosynthesis?



carbon
dioxide

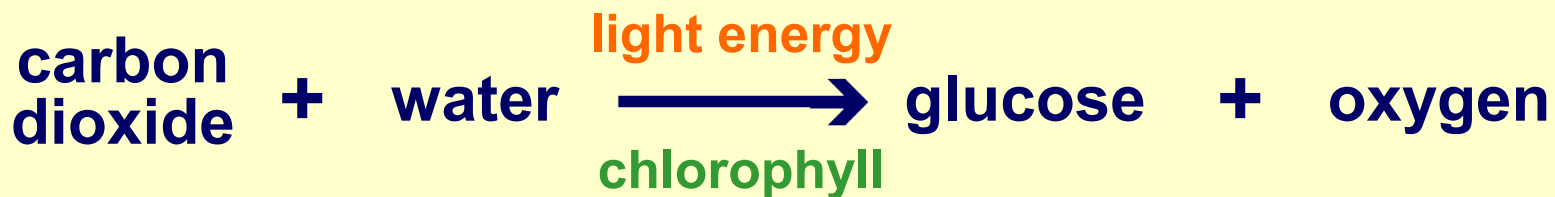


solve

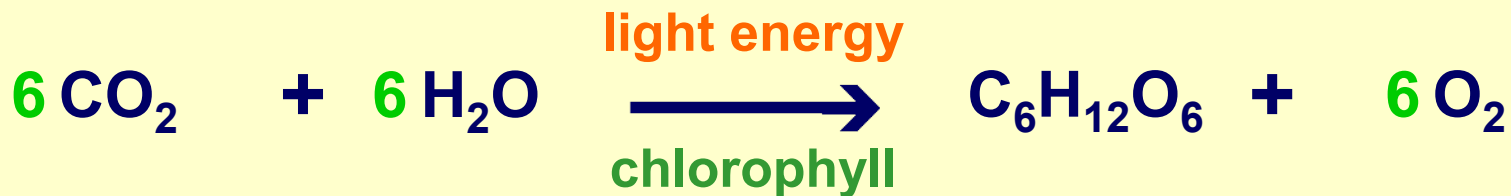


What is the symbol equation for photosynthesis?

The reaction of photosynthesis can be represented by the following equation:



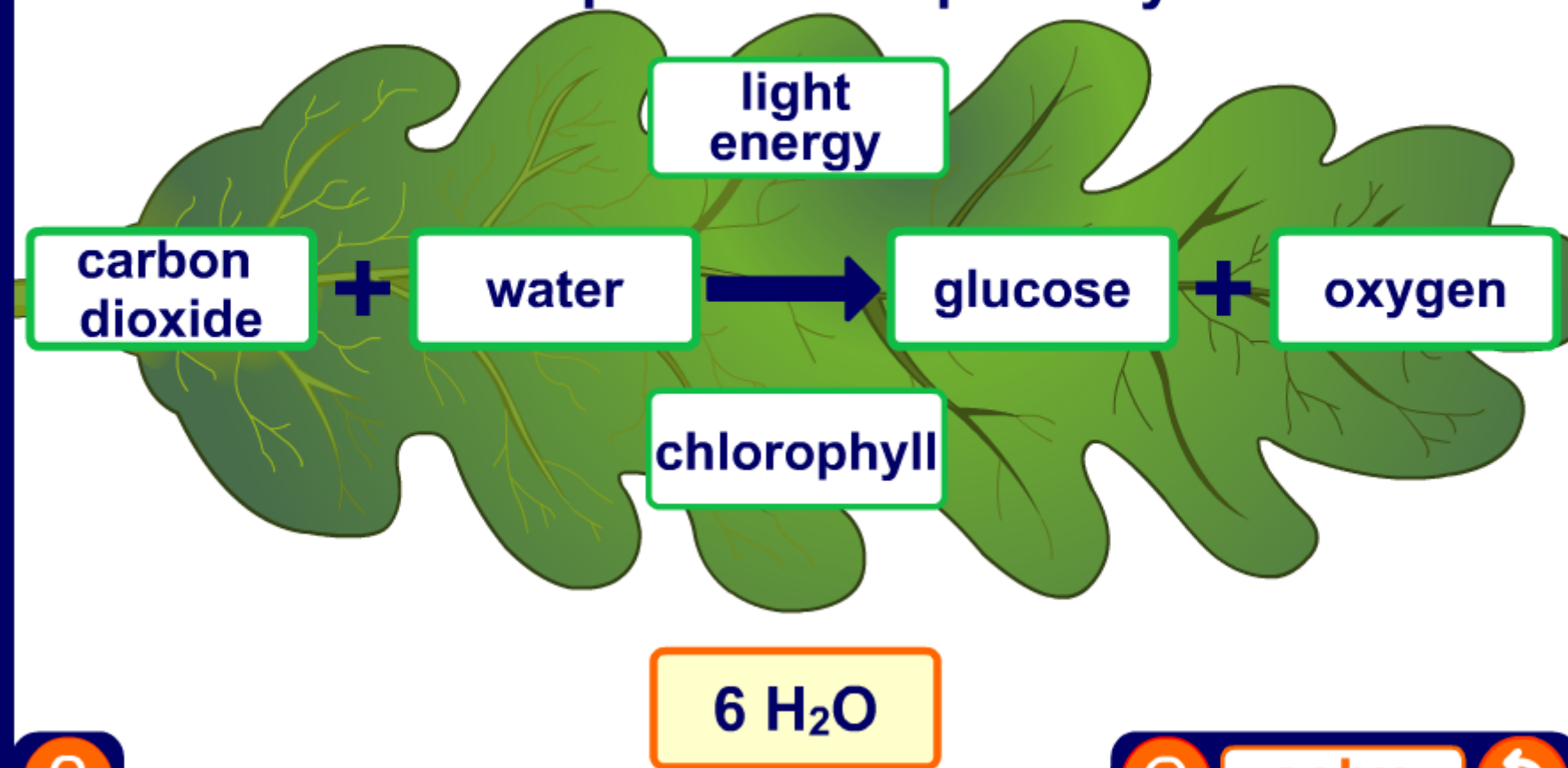
What is the symbol equation for this reaction?



Is this a balanced symbol equation?

How would you balance the equation?

What are the chemical formulas for the reactants and products of photosynthesis?



solve





How much do you know about photosynthesis?

Photosynthesis makes
food for all life on Earth.



How much do you know
about this chemical reaction?

Click "**start**" to find out.



start



Does photosynthesis change the air?

The evolution of photosynthesis, hundreds of millions of years ago, was one of the biggest changes to shape the Earth.

Photosynthesis by plants caused major alterations to the atmosphere of Earth, turning it from a hot and hostile planet into one suitable for life.



It lowered the levels of carbon dioxide in the atmosphere and raised the levels of oxygen, which is used by most organisms for respiration. Oxygen also led to the formation of the ozone layer, which filters out harmful UV rays.

