


Photosynthesis

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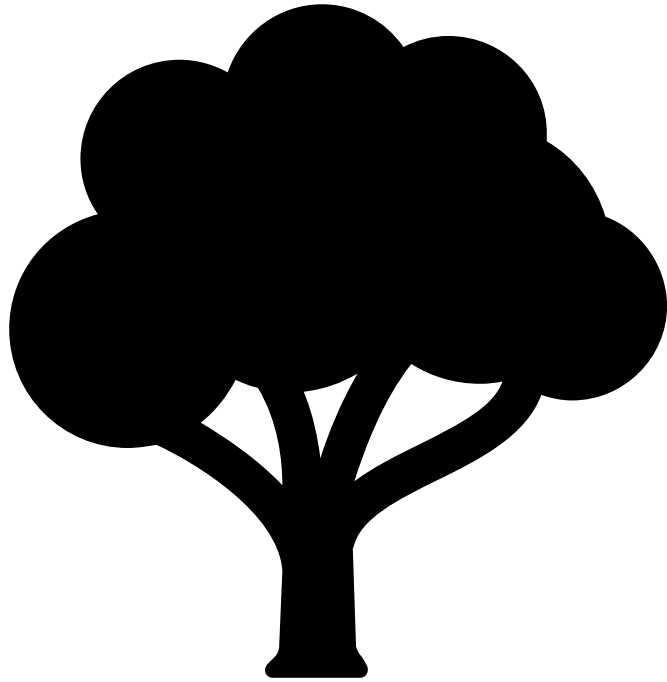




What is the definition of photosynthesis?

- *Photosynthesis is the process by which green plants and some other organisms use sunlight to synthesize foods from carbon dioxide and water.*

What is glucose and how is it made?



- *Glucose is a simple sugar with a compound $C_6H_{12}O_6$. Glucose is mainly made by plants and most algae during photosynthesis from water and carbon dioxide.*

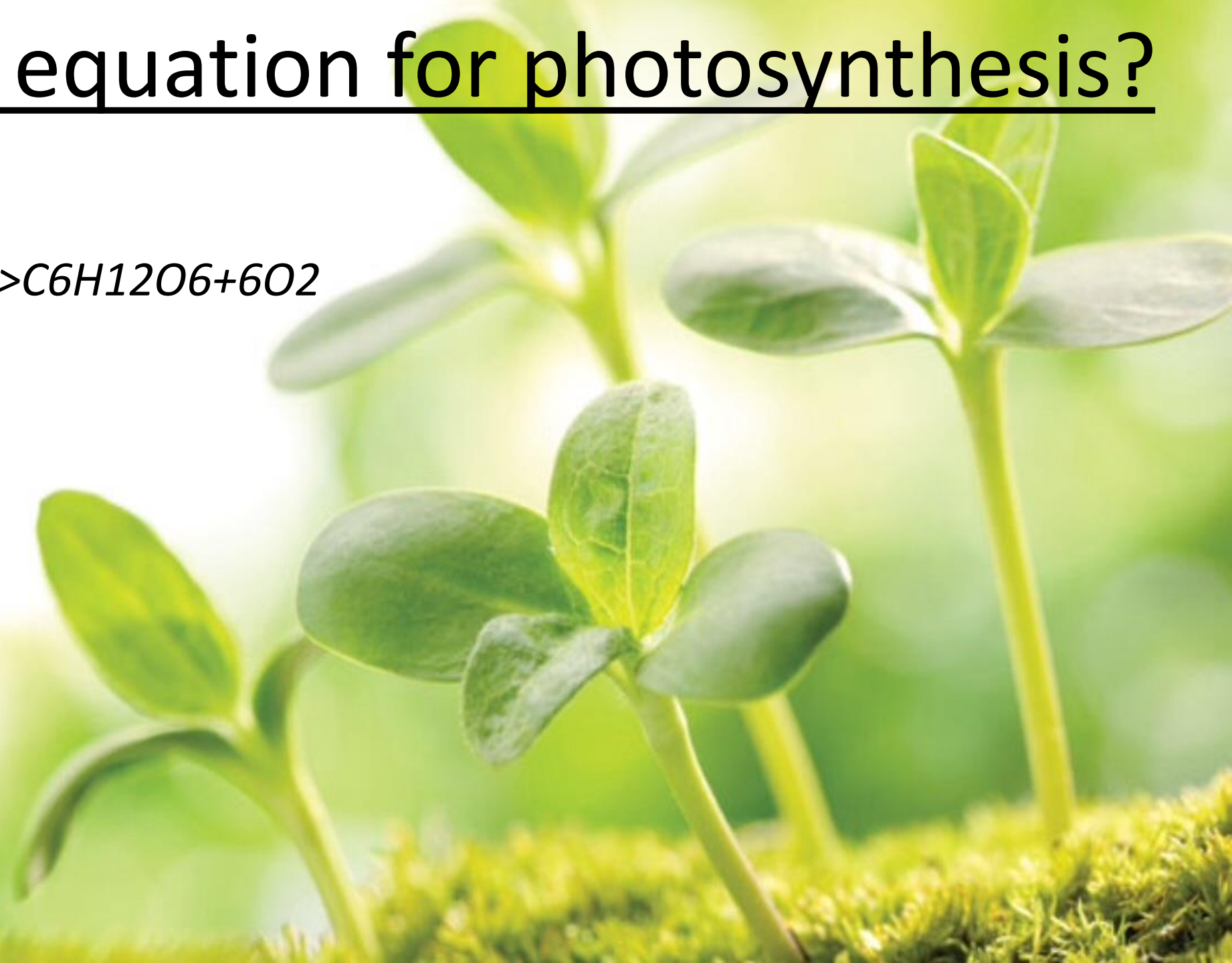
What is pigment?

- *A pigment is the part that shows the color and intake energy from the sun. Chlorophyll is the primary pigment in plants. It is a chlorine that absorbs yellow and blue wavelengths of light while reflecting green.*



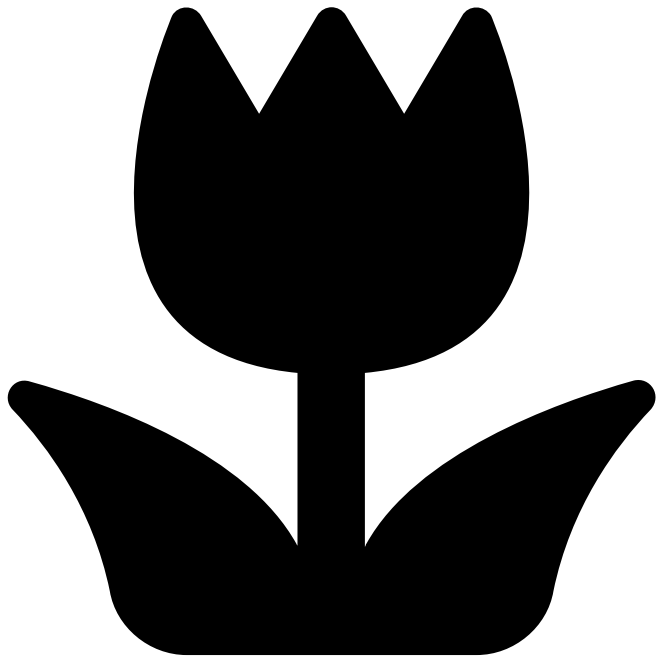
What is the equation for photosynthesis?

- $6CO_2+6H_2O\rightarrow C_6H_{12}O_6+6O_2$



What is the process of plants making food?

- *1) The plant draws up water and minerals from the ground through the roots. 2) Leaves take in carbon dioxide from the air and then releases oxygen. 3) Sunlight gives chloroplasts energy from the sun to create food(chloroplasts are organelles found in plant cells and eukaryotic algae that conducts photosynthesis. Chloroplasts absorb sunlight and use it in conjunction with water and carbon dioxide gas to produce food for the plant).*



Vocabulary:

Energy- The ability to do work.

Chlorophyll- Green pigment responsible for the absorption of light to provide energy for photosynthesis.

Carbon dioxide- Natural gas that is present in the air and is absorbed by plants during photosynthesis.

Photosynthesis- Photosynthesis is the process by which green plants and some other organisms use sunlight to synthesize foods from carbon dioxide and water.

Glucose- Important sugar for living organisms.

Oxygen- Life supporting component of air.

Water- Basis of the fluid of living organisms.

Carbon cycle- Pathways through which carbon is recycled through the biosphere.

Cellular respiration- Process of breaking down glucose to obtain energy in the form of ATP.

ATP- A high energy molecule found in every cell. Its job is to store and supply the cell with needed energy.

<https://ssec.si.edu/photosynthesis-blinded-light>

