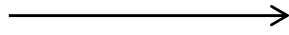


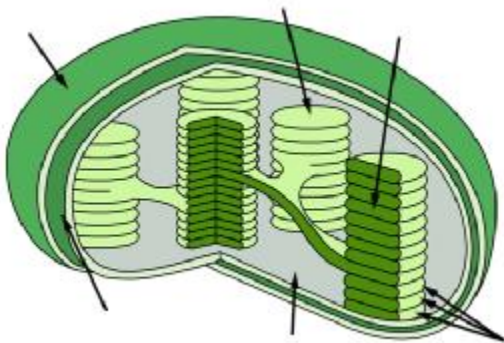
Photosynthesis

Plants and other autotrophs make food out of “thin air”—at least, they use carbon dioxide from the air to make food. Most food is made in the process of photosynthesis. This process provides more than 99% of the energy used by living things on Earth. Photosynthesis also supplies Earth’s atmosphere with oxygen.

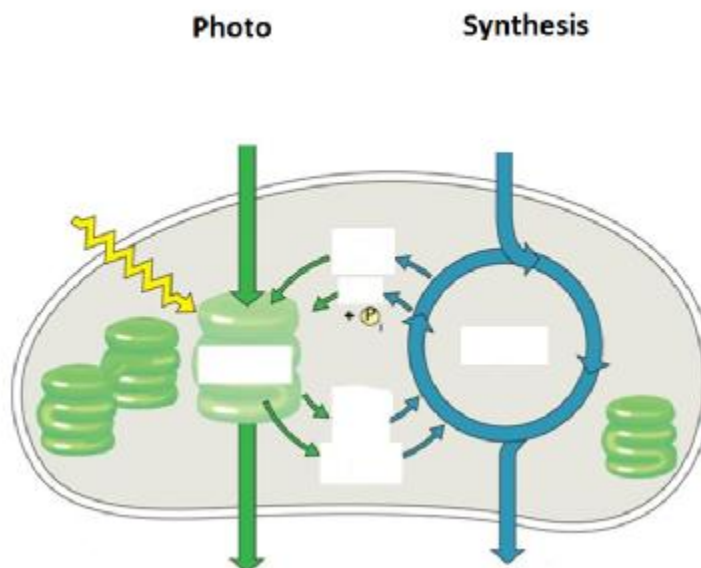
Reaction of photosynthesis



Chloroplast

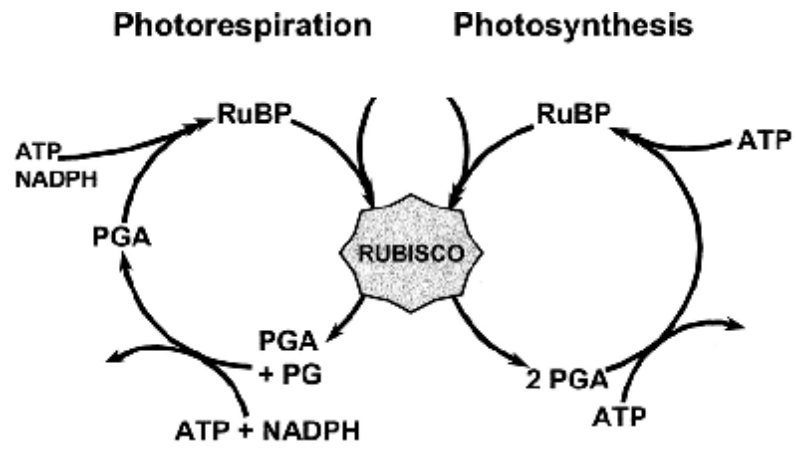


Stages of photosynthesis



This stage uses water and changes light energy from the sun into chemical energy stored in ATP and NADPH (another energy-carrying molecule). This stage also releases oxygen as a waste product.

This stage combines carbon from carbon dioxide in the air and uses the chemical energy in ATP and NADPH to make glucose.



C4 and CAM plants

Limiting factors for photosynthesis
(homework)