

Photosynthesis Revision Notes

Heterotrophs – Organisms that use light energy or chemical energy and inorganic substrates (CO_2 + H_2O) to synthesise complex organic molecules.

Chemotrophs – Use chemical energy

Phototrophs – Organisms that ingest & digest complex organic molecules, utilising the chemical potential energy stored in them.

Photoautotrophs – The manufacture of carbohydrates (or organic molecules) from inorganic substrates (water and carbon dioxide) using light energy. Light energy is converted into chemical potential energy, utilised for respiration.

Photosynthetic Pigment – Molecules that absorb light energy. Each pigment absorbs a range of wavelengths; the visible spectrum and has its own distinct peak, the others are reflected. Located in thylakoid membranes.

Primary Pigments – Reaction centres of many photosystems e.g. Chlorophyll a.

Chlorophyll a – Absorbs P_{680} is found with peak absorption at wavelength 680nm.

Chlorophyll b – Absorbs P_{650} is found with peak absorption at wavelength 650nm.

Accessory Pigments – Absorb different wavelengths of light and pass the energy to the primary pigment or other reaction centres of photosystems e.g. Chlorophyll b, carotenes and xanthophyll.

Absorption spectrum, bar chart – A graph showing the wavelengths of light absorbed by a pigment & the rate of reaction.

Chlorophyll a – 400-680nm 680nm (blue and red) Pigment appears yellow-green "efficient"

Chlorophyll b – 400-650nm 650nm (blue and red) Pigment appears blue-green "efficient"

Carotenoids – 400-500nm 500nm (blue and green) Pigment appears yellow-orange

Light Dependent – Takes place on thylakoid membranes. Requires light energy for the conversion of chemical energy

Photosynthesis – Conversion of H_2O to the presence of light energy. Takes place on the thylakoid membranes of chloroplasts. Two types are cyclic and non-cyclic, during the light-dependent stage.

Photosynthesis – Enzyme-catalysed reaction where water molecules are split, using light energy. It occurs in photosystems II during the light-dependent stage.

Electron Carriers – Molecules that transfer electrons. Reducing agent.

Electron Acceptors – Chemicals that accept electrons from another compound. Acts as an oxidising agent.

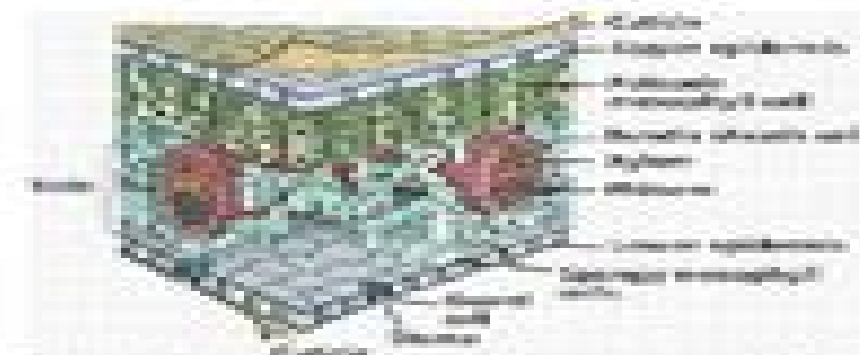
Oxidation – Chemical reactions involving the loss of electrons, gain of oxygen or loss of hydrogen atoms.

Reduction – Chemical reactions involving the gain of electrons, loss of oxygen or gain of hydrogen atoms.

Light Independent – In cyclic and chloroplasts (cristae structure), No light is required, but it does require food of the end products of light-dependent stage – Reduced NADPH, NADP^+ and carbon dioxide to make organic molecules.

Chloroplast Structure – Photosynthesis takes place in organelles called chloroplasts, where photosynthesis takes place.

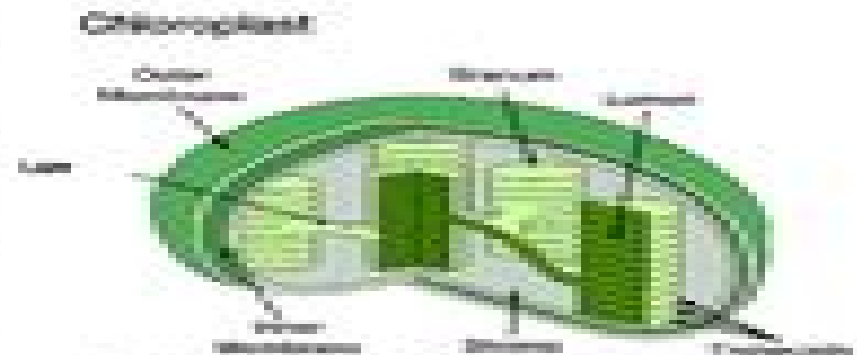
Limiting factor – The factor present in the lowest amount, therefore limits the rate of the overall reaction.



Photosynthesis is the production of organic compounds such as glucose from inorganic compounds like carbon dioxide and water using energy from sunlight.

$6\text{CO}_2 + 6\text{H}_2\text{O} + \text{light energy} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$ (Chlorophyll's primary product and can be used in respiration.)

Then Photosynthesis can be divided into two stages:



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