

Photosynthesis Revision Notes

Autotrophs – Organisms that use light energy or chemical energy and inorganic substrates (CO_2) to synthesize complex organic molecules.

Chemosynthesis – Use chemical energy

Photoautotrophs – Use light energy

Heterotrophs – Organisms that depend on other complex organic molecules, including the chemical potential energy stored in them.

Chemosynthesis – The manufacture of carbohydrates (organic molecules) from inorganic substrates (water and carbon dioxide) using light energy. Light energy is converted into chemical potential energy, released by oxygen atoms.

Photochemical reaction – 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 the thylakoid membranes.

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

Accessory pigments – Absorb λ_{max} is found with peak absorption at wavelength 680nm.

Secondary pigments – Absorb λ_{max} is found with peak absorption at wavelength 680nm.

Primary photosynthesis – Harvest different wavelengths of light and pass the energy to the primary pigment in the reaction centres of photosystems, e.g. Chlorophyll a, carotenes and xanthophyll.

Absorption and action spectra – A graph showing the wavelengths of light absorbed by a pigment & the rate of reaction.

Chlorophyll a – 430-680nm & 680-700nm (blue and red); pigment appears yellow-green ("yellow")

Chlorophyll b – 460-650nm & 640-670nm (blue and red); pigment appears blue-green ("blue-green")

Carotenoids – 400-500nm & 500-550nm (blue and green); pigment appears yellow-orange

Light dependent – Takes place in thylakoid membranes. Requires light energy to be converted into chemical energy. Conversion of ADP to the phosphorylated ADP (ATP) by the presence of light energy. Takes place in the thylakoid membranes. All chloroplasts have light and non-light, during the light-dependent stage.

Photosynthesis – Excites photochemical reaction centre where water molecules are split, using light energy. It occurs in photosystem II during the light dependent stage.

Electron carriers – Molecules that transfer electrons, including agents.

Electron acceptor – Chemicals that accept electrons from another compound. Acts as an oxidizing agent.

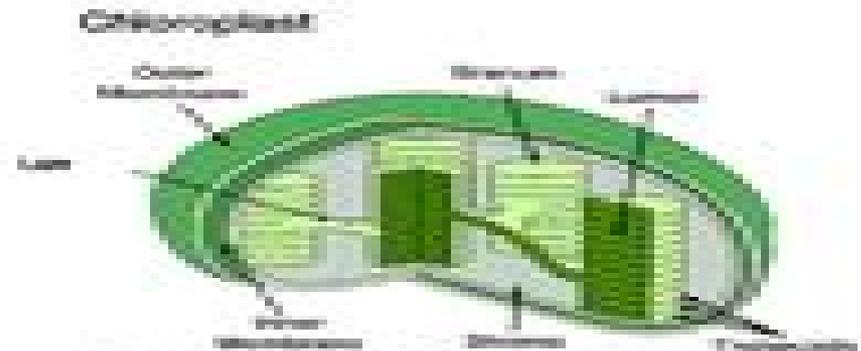
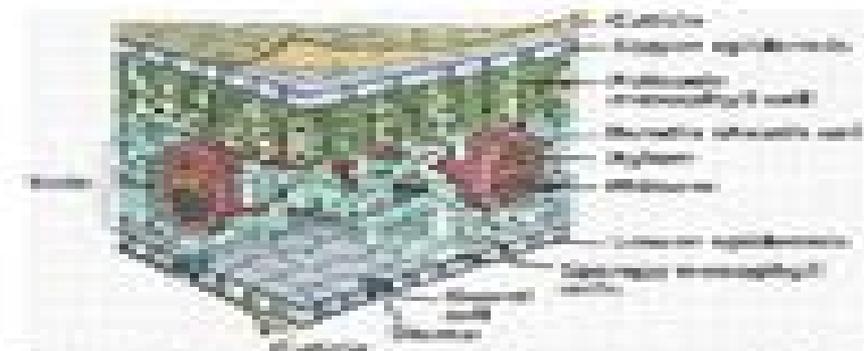
Redox – Chemical reactions involving the loss of electrons, gain of oxygen or loss of hydrogen atoms.

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

Light independent – In-stroma and chloroplast (stroma) systems, no light is required, but it does involve loss of the end products of light dependent stage - reduced NADP, ATP and carbon dioxide to make organic molecules.

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

Grana (stacks) – The factor present in the lowest amount, therefore limits the rate of the overall reaction.



Photosynthesis is the production of organic compounds with 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 visible product as it can be used in respiration.)

Other photosynthetic can be identified from stages:

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