

## Photosynthesis Revision Notes

**Heterotrophs** – Organisms that use light energy or chemical energy and inorganic substrates ( $\text{CO}_2$  +  $\text{H}_2\text{O}$ ) 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 (inorganic substrates) 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  $\text{P}_{680}$  is found with peak absorption at wavelength 680nm.

**Chlorophyll b** – Absorbs  $\text{P}_{650}$  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** – 400-500nm & 600-700nm (blue and red) Pigment appears yellow-green "efficient".

**Chlorophyll b** – 400-500nm & 600-700nm (blue and red) Pigment appears blue-green "efficient".

**Carotenoids** – 400-500nm & 600-700nm (blue and green) Pigment appears yellow-orange.

**Light Dependent** – Takes place on thylakoid membranes. Requires light energy for the conversion of chemical energy. Conversion of  $\text{ADP}$  to the presence of light energy. Takes place on the thylakoid membranes. All chloroplasts have light and non-light, during the light-dependent stage.

**Photosynthesis** – Energy-containing 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 Acceptor** – Chemicals that accept electrons from another compound. Acts as an oxidising agent.

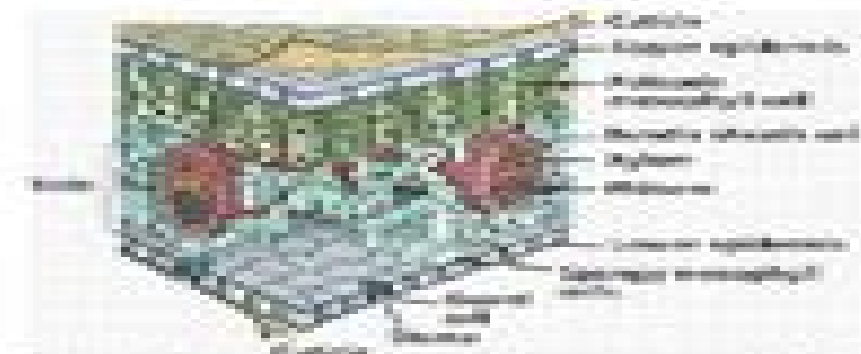
**Oxidation** – Chemical reactions involving the loss of electrons, gain of oxygen or loss of hydrogen atoms.

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

**Light Independent** – In-stroma and chloroplast (stroma enzymes). No light is required, but it does require food of the end products of light-dependent stage - Reduced NADPH,  $\text{ATP}$  and carbon dioxide to make organic molecules.

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

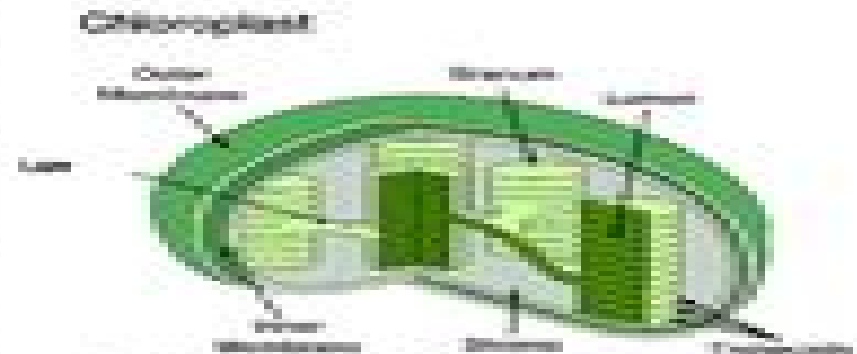
**Limiting factor** – The factor present in the lowest amount, therefore limits the rate of the overall reaction.



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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**Lingjun Ying**



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