

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 430nm.

Chlorophyll b – Absorbs P_{650} is found with peak absorption at wavelength 453nm.

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 – 430-450nm & 640-680nm (blue and red) Pigment appears yellow/green "efficient".

Chlorophyll b – 460-480nm & 630-650nm (blue and red) Pigment appears blue/green "efficient".

Carotenoids – 400-500nm & 500-550nm (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. 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 Acceptors – Chemicals that accept electrons from another compound. Acts as an oxidising agent.

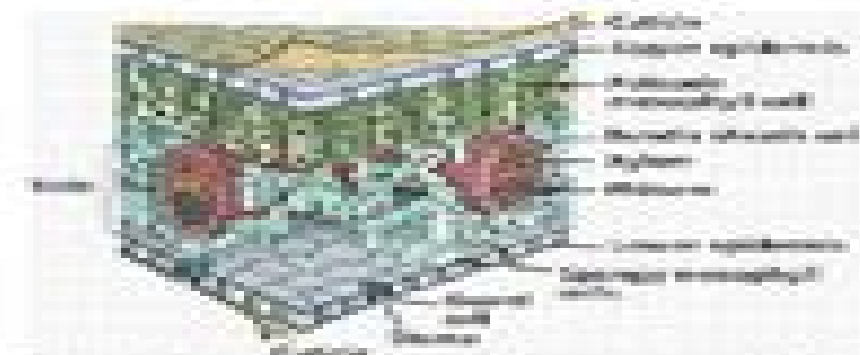
Oxidation – Chemical reactions involving the loss of electrons, gain of oxygen or loss of hydrogen atoms.

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

Light Independent – In-stroma and chloroplast (stroma enzymes). 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.

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

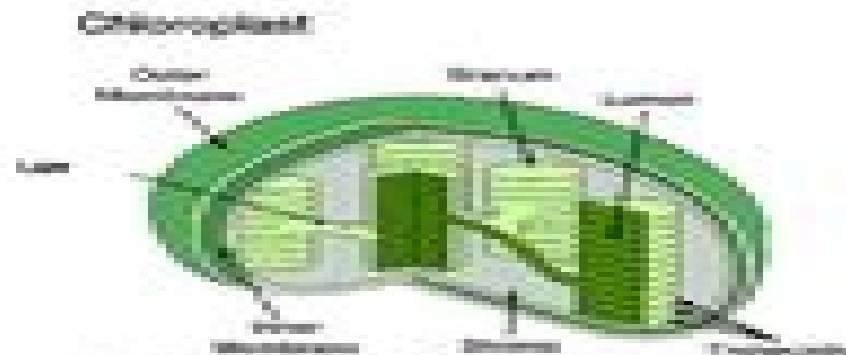
Limiting factor – The factor present in the lowest amount, therefore limits the rate of the overall reaction.



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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Table of Contents Ocr F214 Past Papers

1. Understanding the eBook Ocr F214 Past Papers
 - The Rise of Digital Reading Ocr F214 Past Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Ocr F214 Past Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ocr F214 Past Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ocr F214 Past Papers
 - Personalized Recommendations

- Ocr F214 Past Papers User Reviews and Ratings
- Ocr F214 Past Papers and Bestseller Lists
- 5. Accessing Ocr F214 Past Papers Free and Paid eBooks
 - Ocr F214 Past Papers Public Domain eBooks
 - Ocr F214 Past Papers eBook Subscription Services
 - Ocr F214 Past Papers Budget-Friendly Options
- 6. Navigating Ocr F214 Past Papers eBook Formats
 - ePub, PDF, MOBI, and More
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 - Ocr F214 Past Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ocr F214 Past Papers
 - Highlighting and Note-Taking Ocr F214 Past Papers
 - Interactive Elements Ocr F214 Past Papers
- 8. Staying Engaged with Ocr F214 Past Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ocr F214 Past Papers
- 9. Balancing eBooks and Physical Books Ocr F214 Past Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ocr F214 Past Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ocr F214 Past Papers
 - Setting Reading Goals Ocr F214 Past Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ocr F214 Past Papers
 - Fact-Checking eBook Content of Ocr F214 Past Papers

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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