

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 – 400-500nm & 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.

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.

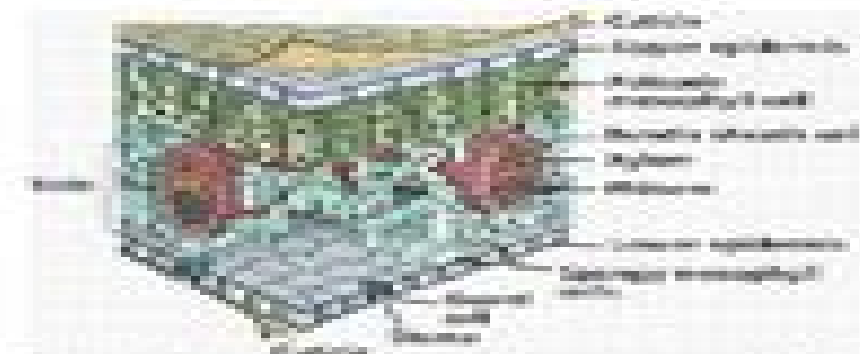
Oxidation – Chemical reactions involving the loss of electrons, gain of oxygen or loss of hydrogen atoms.

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

Light Independent – In-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.

Chloroplast Membrane – Photosynthesis takes place within their cells called chloroplasts, where photosynthesis takes place.

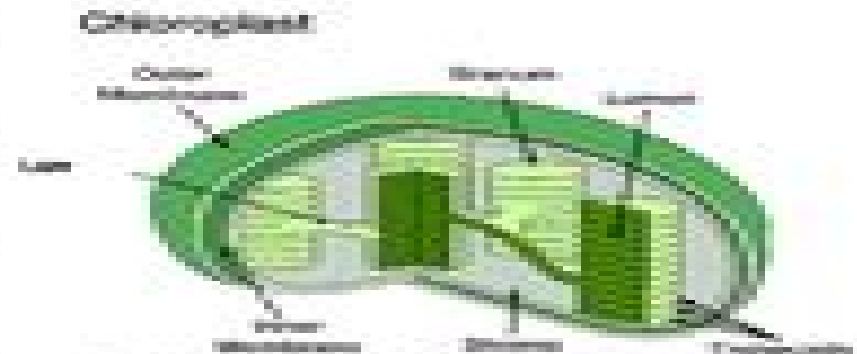
Limiting factor – The factor present in the lowest amount, therefore limits the rate of the overall reaction.



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 Biology F214 June 2013 Mark Scheme

1. Understanding the eBook Ocr Biology F214 June 2013 Mark Scheme
 - The Rise of Digital Reading Ocr Biology F214 June 2013 Mark Scheme
 - Advantages of eBooks Over Traditional Books
2. Identifying Ocr Biology F214 June 2013 Mark Scheme
 - 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 Biology F214 June 2013 Mark Scheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ocr Biology F214 June 2013 Mark Scheme
 - Personalized Recommendations
 - Ocr Biology F214 June 2013 Mark Scheme User Reviews and Ratings
 - Ocr Biology F214 June 2013 Mark Scheme and Bestseller Lists
5. Accessing Ocr Biology F214 June 2013 Mark Scheme Free and Paid eBooks
 - Ocr Biology F214 June 2013 Mark Scheme Public Domain eBooks
 - Ocr Biology F214 June 2013 Mark Scheme eBook Subscription Services
 - Ocr Biology F214 June 2013 Mark Scheme Budget-Friendly Options

6. Navigating Ocr Biology F214 June 2013 Mark Scheme eBook Formats
 - ePub, PDF, MOBI, and More
 - Ocr Biology F214 June 2013 Mark Scheme Compatibility with Devices
 - Ocr Biology F214 June 2013 Mark Scheme Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ocr Biology F214 June 2013 Mark Scheme
 - Highlighting and Note-Taking Ocr Biology F214 June 2013 Mark Scheme
 - Interactive Elements Ocr Biology F214 June 2013 Mark Scheme
8. Staying Engaged with Ocr Biology F214 June 2013 Mark Scheme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ocr Biology F214 June 2013 Mark Scheme
9. Balancing eBooks and Physical Books Ocr Biology F214 June 2013 Mark Scheme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ocr Biology F214 June 2013 Mark Scheme
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ocr Biology F214 June 2013 Mark Scheme
 - Setting Reading Goals Ocr Biology F214 June 2013 Mark Scheme
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ocr Biology F214 June 2013 Mark Scheme
 - Fact-Checking eBook Content of Ocr Biology F214 June 2013 Mark Scheme
 - 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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