

Plant studies

Plant nutrition and photosynthesis

1 Photosynthesis and respiration

1.1 Photosynthesis

- Converts light energy into the chemical energy of sugars and other organic compounds, i.e.
 - $\text{CO}_2 + \text{H}_2\text{O} + \text{energy sun} \rightarrow \text{carbohydrates} + \text{O}_2$
 - chemical energy is stored in the form of glucose (a carbohydrate)
 - secondary products: other carbohydrates, lipids, proteins.
- Photosynthesis process occurs mainly within the leaves:
 - CO_2 is obtained through stomata
 - H_2O is obtained through the roots
 - sunlight is absorbed by chlorophyll located in chloroplasts – site of photosynthesis
 - O_2 is released through stomata.
- Importance of photosynthesis:
 - production and renewal of almost all the atmospheric oxygen
 - provision of food for all plants and animals
 - production of fossil fuels (coal, natural gas and oil) from plant and animal remains
 - reduction of CO_2 in the atmosphere.
- Energy produced is used in respiration.

1.2 Respiration

- Plants and animals break down energy-rich organic compounds into simple inorganic compounds
 - – release large amounts of energy for cellular work necessary for growth and reproduction, i.e.
 - $\text{carbohydrates} + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O} + \text{chemical energy}$.

Table 1 The differences between photosynthesis and respiration

Photosynthesis	Respiration
<ul style="list-style-type: none">• produces food• stores energy• consumes H_2O• consumes CO_2• releases O_2• light-dependent	<ul style="list-style-type: none">• consumes food• releases energy• produces H_2O• produces CO_2• consumes O_2• light-independent

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Questions and Replies of the National Assembly South Africa. Parliament (1994-). National Assembly,2002

Resources in Education ,1984 **Farmer's Weekly** ,1928 **The Athenaeum** ,1871 **National Stockman and Farmer** ,1888 **The Chamber of Commerce Journal** ,1900 *The Far Eastern Review, Engineering, Finance, Commerce* ,1906 Athenaeum and Literary Chronicle James Silk Buckingham,John Sterling,Frederick Denison Maurice,Henry Stebbing,Charles Wentworth Dilke,Thomas Kibble Hervey,William Hepworth Dixon,Norman Maccoll,Vernon Horace Rendall,John Middleton Murry,1909 *Nature* Sir Norman Lockyer,1882 **Moore's Rural New Yorker** ,1912

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Table of Contents Eastern Cape Agricultural Sciences Grade1final Examination Paper1

1. Understanding the eBook Eastern Cape Agricultural Sciences Grade1final Examination Paper1
 - The Rise of Digital Reading Eastern Cape Agricultural Sciences Grade1final Examination Paper1
 - Advantages of eBooks Over Traditional Books
2. Identifying Eastern Cape Agricultural Sciences Grade1final Examination Paper1
 - 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 Eastern Cape Agricultural Sciences Grade1final Examination Paper1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Eastern Cape Agricultural Sciences Grade1final Examination Paper1
 - Personalized Recommendations
 - Eastern Cape Agricultural Sciences Grade1final Examination Paper1 User Reviews and Ratings
 - Eastern Cape Agricultural Sciences Grade1final Examination Paper1 and Bestseller Lists

5. Accessing Eastern Cape Agricultural Sciences Grade 1 final Examination Paper 1 Free and Paid eBooks
 - Eastern Cape Agricultural Sciences Grade 1 final Examination Paper 1 Public Domain eBooks
 - Eastern Cape Agricultural Sciences Grade 1 final Examination Paper 1 eBook Subscription Services
 - Eastern Cape Agricultural Sciences Grade 1 final Examination Paper 1 Budget-Friendly Options
6. Navigating Eastern Cape Agricultural Sciences Grade 1 final Examination Paper 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Eastern Cape Agricultural Sciences Grade 1 final Examination Paper 1 Compatibility with Devices
 - Eastern Cape Agricultural Sciences Grade 1 final Examination Paper 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Eastern Cape Agricultural Sciences Grade 1 final Examination Paper 1
 - Highlighting and Note-Taking Eastern Cape Agricultural Sciences Grade 1 final Examination Paper 1
 - Interactive Elements Eastern Cape Agricultural Sciences Grade 1 final Examination Paper 1
8. Staying Engaged with Eastern Cape Agricultural Sciences Grade 1 final Examination Paper 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Eastern Cape Agricultural Sciences Grade 1 final Examination Paper 1
9. Balancing eBooks and Physical Books Eastern Cape Agricultural Sciences Grade 1 final Examination Paper 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Eastern Cape Agricultural Sciences Grade 1 final Examination Paper 1
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Eastern Cape Agricultural Sciences Grade 1 final Examination Paper 1
 - Setting Reading Goals Eastern Cape Agricultural Sciences Grade 1 final Examination Paper 1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Eastern Cape Agricultural Sciences Grade 1 final Examination Paper 1
 - Fact-Checking eBook Content of Eastern Cape Agricultural Sciences Grade 1 final Examination Paper 1
 - 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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