

# 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:
  - $\text{CO}_2$  is obtained through stomata
  - $\text{H}_2\text{O}$  is obtained through the roots
  - sunlight is absorbed by chlorophyll located in chloroplasts – site of photosynthesis
  - $\text{O}_2$  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  $\text{CO}_2$  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"><li>• produces food</li><li>• stores energy</li><li>• consumes <math>\text{H}_2\text{O}</math></li><li>• consumes <math>\text{CO}_2</math></li><li>• releases <math>\text{O}_2</math></li><li>• light-dependent</li></ul>	<ul style="list-style-type: none"><li>• consumes food</li><li>• releases energy</li><li>• produces <math>\text{H}_2\text{O}</math></li><li>• produces <math>\text{CO}_2</math></li><li>• consumes <math>\text{O}_2</math></li><li>• light-independent</li></ul>

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*International Water Law and the Human Right to Water* Imad Antoine Ibrahim,2024-11-19 This book examines the development of international law applicable to Transboundary Aquifers TBAs considering the Human Right to Water and Sanitation HRWS The purpose is to determine how International Water Law IWL and the HRWS can be harmonized in the context of TBAs This is important given rules and instruments adopted to address this topic are relatively nascent and the field itself is still in the process of developing regulatory frameworks Taking the application of the HRWS to shared aquifers as a case study the work discusses whether

IWL and International Human Rights Law complement each other The response to this question requires an analysis of the development of International Groundwater Law and its challenges the evolution of the HRWS the nature of transboundary groundwaters and the interplay between these two fields The author argues that IWL agreements should contain a provision related to the HRWS to ensure the protection of this right with a stipulation included in the nonbinding instrument that tackles shared groundwaters the Draft Articles on the Law of Transboundary Aquifers adopted in 2008 through the United Nations General Assembly Resolution The book will be of interest to international lawyers water and human right experts geologists and anyone interested in water and human rights issues

**Rivers Lost, Rivers Regained** Martin Knoll,Uwe Lubken,Dieter Schott,2017-06-13 Many cities across the globe are rediscovering their rivers After decades or even centuries of environmental decline and cultural neglect waterfronts have been revamped up and become focal points of urban life again hidden and covered streams have been daylighted while restoration projects have returned urban rivers in many places to a supposedly more natural state This volume traces the complex and winding history of how cities have appropriated lost and regained their rivers But rather than telling a linear story of progress the chapters of this book highlight the ambivalence of these developments The four sections in Rivers Lost Rivers Regained discuss how cities have gained control and exerted power over rivers and waterways far upstream and downstream how rivers and floodplains in cityscapes have been transformed by urbanization and industrialization how urban rivers have been represented in cultural manifestations such as novels and songs and how more recent strategies work to redefine and recreate the place of the river within the urban setting At the nexus between environmental urban and water histories Rivers Lost Rivers Regained points out how the urban river relationship can serve as a prime vantage point to analyze fundamental issues of modern environmental attitudes and practices

*Cities, Climate Change, and Public Health* Ella Jisun Kim,2020-04-20 To date climate adaptation has mostly focused on protecting physical assets from potentially catastrophic climatic changes While the lack of human vulnerability and equity components in adaptation plans and policies has been critiqued by many this has not yet led to climate adaptation planning and policymaking processes that situates people s health and well being front and center This book examines how cities can use a public health frame of climate change to boost people s understanding of and concern about climate change and increase policy support for climate adaptation efforts at the local level In addition it aims to strengthen our understanding of different tools cities can use to operationalize a focus on the health implications of climate change enhance collective decision making capacities and ultimately build human resilience to climate change

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## **Memoradam Agricultural Science Paper1 Examination 2014** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Memoradam Agricultural Science Paper1 Examination 2014**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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