

# 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>

# What Does Agriculture Include Paper1 Final Examination Grade 11

**Jessica J Manson**



**What Does Agriculture Include Paper1 Final Examination Grade 11:**

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In a digitally-driven world wherever displays reign supreme and instant conversation drowns out the subtleties of language, the profound secrets and mental subtleties hidden within phrases frequently move unheard. Yet, set within the pages of **What Does Agriculture Include Paper1 Final Examination Grade 11** a fascinating literary prize pulsating with raw emotions, lies an exceptional journey waiting to be undertaken. Written by a talented wordsmith, this enchanting opus encourages viewers on an introspective trip, lightly unraveling the veiled truths and profound impact resonating within ab muscles fabric of each word. Within the emotional depths of this poignant evaluation, we shall embark upon a genuine exploration of the book is primary subjects, dissect its fascinating writing design, and fail to the strong resonance it evokes deep within the recesses of readers hearts.

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