

# 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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**G. H. Owen**



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