

LEARNING OUTCOMES

At the end of this topic you should be able to:

- define the term *photosynthesis*
- state the source of energy, the raw materials and the products of photosynthesis
- write word and balanced chemical equations for photosynthesis
- state the role of chlorophyll in photosynthesis
- describe the fate of the products of photosynthesis.

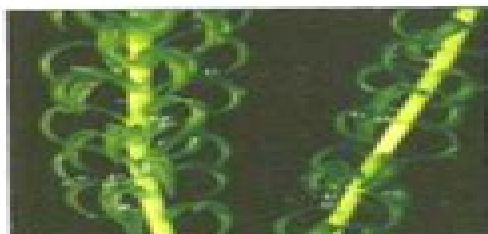


Figure 4.2.1

In bright sunshine the freshwater plant, *Elodea*, releases bubbles of gas rich in oxygen.

STUDY FOCUS

You should learn these two equations, but realise they summarise many reactions that occur within chloroplasts. In one of these reactions carbon dioxide gains electrons. These come from the splitting of water. A reaction where a substance gains electrons is called a *reduction reaction*.

Water weeds oxygenate the water in fish tanks, ponds, lakes and rivers. During daylight hours they release bubbles of gas that are rich in oxygen – the waste product of photosynthesis (Figure 4.2.1).

Photosynthesis is a process that uses light energy to drive chemical reactions in which carbon dioxide and water are changed to glucose and oxygen.

Light is absorbed by **chlorophyll**, a green pigment which is found only in chloroplasts.

The process is summarised in this word equation:



The chemical equation for photosynthesis is:



In the process of photosynthesis, carbon dioxide and water diffuse into chloroplasts. Chlorophyll absorbs light to split water to form hydrogen ions, electrons and oxygen. These ions and electrons are used to reduce carbon dioxide to a simple sugar.

The simple sugar produced in photosynthesis is used to produce a wide range of substances for the plant. Some is respired immediately by cells as it provides the energy needed to keep the cells alive.

The fate of glucose

The plants use the glucose they produce to make:

- **sucrose** – this is transported around the plant in the phloem. It is used in nectar and fleshy fruits to attract animals for pollination and seed dispersal (see 6.8, 9.5 and 9.6)
- **starch** in storage organs, such as seeds, swollen roots (e.g. yams), swollen stems (e.g. Irish potatoes), as a long-term energy store
- **starch** in leaves to store energy for use in respiration at night
- **cellulose** to make cell walls, also used to make fibres in cotton bolls to help seeds disperse in the wind
- **lipids** to make cell membranes and for energy storage, e.g. in seeds.

By combining sugars with nitrogen from nitrate ions, plants can make amino acids and then use them to make proteins, such as enzymes (see 5.3) and carrier proteins in cell membranes (see 3.4).

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Julian J. Eaton-Rye, Roman Sobotka



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was discovered and characterized more than four decades ago Interest in C4 pathway has been sustained and has recently
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Membrane-Protein Complex of Oxygenic Photosynthesis Julian J. Eaton-Rye, Roman Sobotka, 2017-08-08 Photosystem II
is a 700 kDa membrane protein super complex responsible for the light driven splitting of water in oxygenic photosynthesis
The photosystem is comprised of two 350 kDa complexes each made of 20 different polypeptides and over 80 co factors While
there have been major advances in understanding the mature structure of this photosystem many key protein factors
involved in the assembly of the complex do not appear in the holoenzyme The mechanism for assembling this super complex
is a very active area of research with newly discovered assembly factors and subcomplexes requiring characterization
Additionally the ability to split water is inseparable from light induced photodamage that arises from radicals and reactive O₂
species generated by Photosystem II chemistry Consequently to sustain water splitting a self repair cycle has evolved
whereby damaged protein is removed and replaced so as to extend the working life of the complex Understanding how the
biogenesis and repair processes are coordinated is among several important questions that remain to be answered Other
questions include how and when are the inorganic cofactors inserted during the assembly and repair processes and how are
the subcomplexes protected from photodamage during assembly Evidence has also been obtained for Photosystem II

biogenesis centers in cyanobacteria but do these also exist in plants Do the molecular mechanisms associated with Photosystem II assembly shed fresh light on the assembly of other major energy transducing complexes such as Photosystem I or the cytochrome b6 f complex or indeed other respiratory complexes The contributions to this Frontiers in Plant Science Research Topic are likely to reveal new details applicable to the assembly of a range of membrane protein complexes including aspects of self assembly and solar energy conversion that may be applied to artificial photosynthetic systems In addition a deeper understanding of Photosystem II assembly particularly in response to changing environmental conditions will provide new knowledge underpinning photosynthetic yields which may contribute to improved food production and long term food security *Resources in Education* ,2001-10

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