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The magazine-style layout of the **Revision Guides** communicates essential information effectively using visual, audio and hands-on activities.

Plants and algae produce glucose and other organic molecules by **photosynthesis**. **Carbon dioxide** and **water** are the main inputs and the **main energy is light**. **Oxygen** is also produced.

**Photosynthesis** occurs in the chloroplasts within plant cells. The chemical **chlorophyll** (a pigment) is used in photosynthesis.

Nearly all life on Earth relies on the organic compounds that are produced by plants and algae in the process of photosynthesis.

**Herbivores** (plant-eating animals) eat these products directly and utilize the energy they contain. **Carnivores** (meat-eating animals) get their energy from the herbivores and utilize the energy they contain.

Over billions of years plants and algae have altered the Earth's atmosphere.

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## MODULE 8 PHOTOSYNTHESIS

(Sound) ▶ The process by which carbon dioxide is fixed into glucose using light as a source of energy. Oxygen is also produced.

**KEYWORDS**

**Chlorophyll** (noun) ▶ Green chemical used in photosynthesis.

**Leaf** (noun) ▶ Main photosynthetic organ of a plant.

The main photosynthetic organs in plants are leaves. They have a large surface area to absorb as much light as possible. Many plants have leaves which are also able to orientate (turn) themselves to the sun to ensure they absorb the most light possible.

**Leaf Anatomy**

Small pores called **stomata** on the bottom of leaves allow carbon dioxide to enter the leaf for photosynthesis and for the oxygen produced to be released from the leaf.

The majority of photosynthesis occurs in the **mesophyll** cells.

**Xylem** provides the water for photosynthesis and **phloem** are used to transport the products of photosynthesis away from the leaf.

1. What gas is a product of photosynthesis?
2. What green pigment is chlorophyll?
3. Where is the cell wall found in plant cells?
4. What gases continue to be used in photosynthesis?

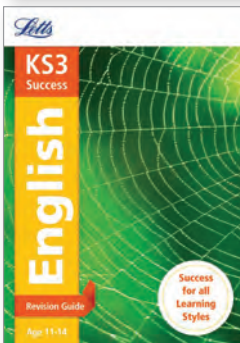
**DEFORESTATION** (permanent removal of trees) reduces the amount of photosynthesis that can occur, therefore less carbon dioxide is removed from the atmosphere. This contributes to climate change.

They have increased the levels of oxygen in the atmosphere and decreased the levels of carbon dioxide.

Today, plants help maintain the concentrations of carbon dioxide and oxygen in the atmosphere.

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**MODULE 8 | PHOTOSYNTHESIS**    14

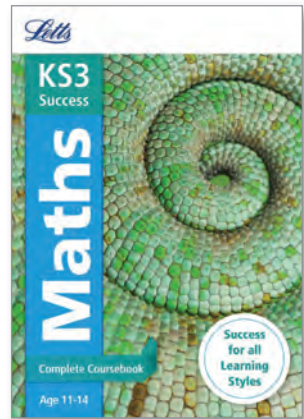
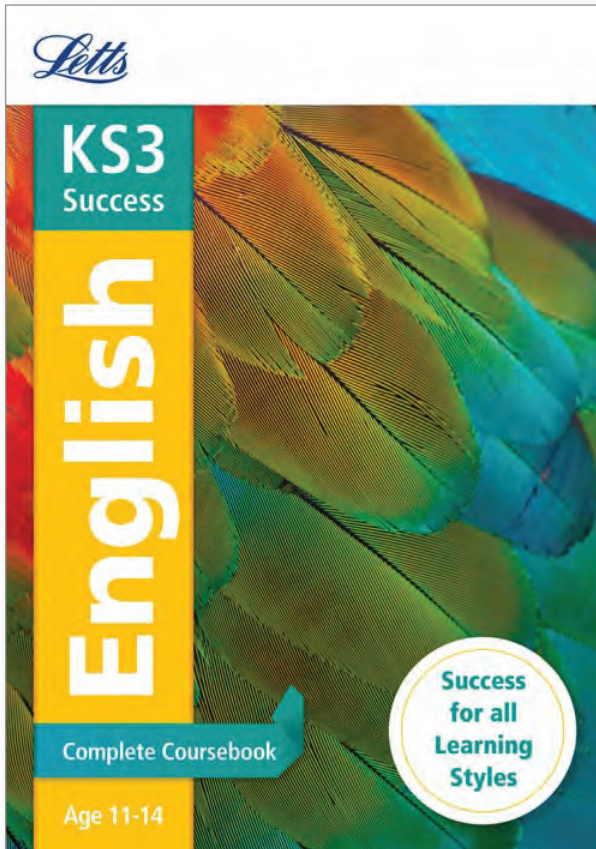




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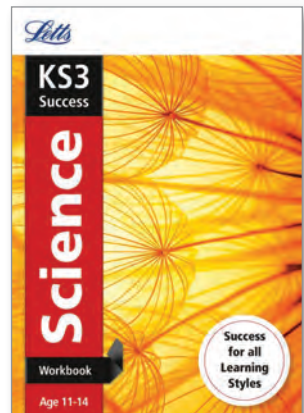
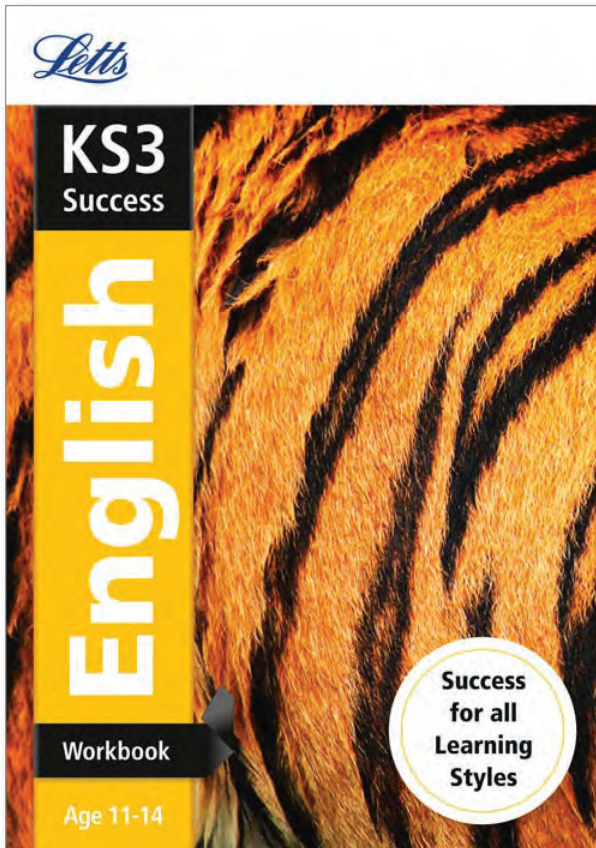




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