

Chapter B5

Before you start

- 1 carbohydrates and fats (and occasionally proteins)
- 2 sunlight
- 3 through photosynthesis in plants, which use energy from sunlight to make carbohydrates

Science in context B5.01

Carbon dioxide is a significant greenhouse gas contributing to global warming and climate change. The process of photosynthesis uses carbon dioxide, so large-scale artificial photosynthesis could help to reduce the concentration of carbon dioxide in the atmosphere, helping to slow down climate change.

Questions

- B5.01** Animals get all of their energy from organic substances, which they are not able to synthesise themselves. Plants synthesise organic substances from inorganic ones, using sunlight as an energy source.
- B5.02** Chlorophyll absorbs energy from sunlight. (Do not accept 'attracts sunlight'.) The energy enables carbon dioxide and water to react to produce carbohydrates.
- B5.03** two

Activity B5.01

- 1 The model shows that six molecules of carbon dioxide and six molecules of water produce one molecule of glucose and six molecules of oxygen.
- 2 Accept any sensible suggestions. For example, some pieces of orange card could be used to represent energy in sunlight, and a learner could hand some to the learners who are building the glucose molecule. The cards can be placed in the carton with the glucose molecule, showing that the energy is incorporated into it.
- 3 The oxygen that is released in photosynthesis comes from water molecules, not carbon dioxide. All the carbon and oxygen in the carbon dioxide becomes part of the glucose molecule.

Questions

B5.04 Starch is a storage material, and if you are storing something you need to be able to get it back again when required. Plants need to be able to break down starch to glucose, so they can use it in respiration to provide energy. Cellulose, however, is a structural material, used to make cell walls. It needs to stay there, not be broken down, or the cell walls would easily break apart.

B5.05 glycogen

B5.06 Some parts of a plant are not exposed to light (e.g. roots) and some parts do not have chloroplasts (e.g. flowers). These parts cannot photosynthesise and make their own carbohydrates, so they must have sucrose delivered to them.

B5.07

Element	nitrogen	magnesium
Mineral salt	nitrate ions	magnesium ions
Why needed	to make amino acids, and then proteins	to make chlorophyll
Deficiency	weak growth, yellow leaves	yellowing of leaves, often especially between the veins

B5.08 (Learners may differ in the knowledge they already have about plant reproduction; this is covered in more detail in Chapter B11.) Pollination is essential for sexual reproduction in plants. Nectar attracts insects to the flower, and the insects transfer pollen to another flower, allowing fertilisation to take place.

- B5.09** A: upper epidermis
B: palisade mesophyll layer
C: spongy mesophyll layer
D: stomata (surrounded by guard cells)

B5.10 It has a large number of chloroplasts, where photosynthesis takes place.

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Y Pai



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