CB6 Plant Structures and their Functions

CB6a Photosynthesis

Step	Learning outcome	Had a look	Nearly there	Nailed it!
7th	Explain why photosynthetic organisms are producers of biomass.	☐	☐	☐
6th	Recall some substances produced from glucose and their roles in the plant.	☐	☐	☐
8th	Summarise what happens in photosynthesis (including the use of a word equation).	☐	☐	☐
9th	Explain why photosynthesis is an endothermic reaction.	☐	☐	☐
6th	Explain how a leaf and its cells are adapted for photosynthesis.	☐	☐	☐

CB6b Factors that affect photosynthesis

Step	Learning outcome	Had a look	Nearly there	Nailed it!
5th	Recall what is meant by a rate of reaction.	☐	☐	☐
7th	Describe the effects of temperature, light intensity and carbon dioxide concentration on the rate of photosynthesis.	☐	☐	☐
9th	Explain the effects of limiting factors of photosynthesis.	☐	☐	☐
9th	**H** Explain the effects of more than one factor on the rate of photosynthesis.	☐	☐	☐
9th	**H** Describe how light intensity and rate of photosynthesis are related.	☐	☐	☐
9th	**H** Explain why the rate of photosynthesis is inversely proportional to the distance of a light source.	☐	☐	☐

CB6c Absorbing water and mineral ions

Step	Learning outcome	Had a look	Nearly there	Nailed it!
6th	Explain how root hair cells are adapted to taking in water and mineral ions.	☐	☐	☐
6th	Recall that substances can be transported by diffusion, osmosis and active transport.	☐	☐	☐
6th	Describe what is meant by a concentration gradient.	☐	☐	☐
7th	Explain why active transport is needed to transport some molecules.	☐	☐	☐
8th	Explain how molecules move by osmosis.	☐	☐	☐

CB6d Transpiration and translocation

Step	Learning outcome	Had a look	Nearly there	Nailed it!
6th	Explain how xylem tissue is adapted to its functions.	☐	☐	☐
6th	Explain how phloem tissue is adapted to its function.	☐	☐	☐
7th	Describe how transpiration occurs.	☐	☐	☐
7th	Describe how translocation occurs.	☐	☐	☐
9th	Explain the effects of environmental factors on the rate of transpiration (light intensity, air movement, temperature, humidity).	☐	☐	☐
7th	Describe how to measure the rate of transpiration.	☐	☐	☐