CB6 Plant Structures and their Functions

RAG rate your confidence levels at the start and end of each topic:

R= Not Confident **A= Fairly confident (need more practice/ to review)** **G= Very confident**

CB6a Photosynthesis

Step	Learning outcome	Start of topic	End of topic
	Explain why photosynthetic organisms are producers of biomass.		
	Recall some substances produced from glucose and their roles in the plant.		
	Summarise what happens in photosynthesis (including the use of a word equation).		
	Explain why photosynthesis is an endothermic reaction.		
	Explain how a leaf and its cells are adapted for photosynthesis.		

CB6b Factors that affect photosynthesis

Step	Learning outcome	Start of topic	End of topic
	Recall what is meant by a rate of reaction.		
	Describe the effects of temperature, light intensity and carbon dioxide concentration on the rate of photosynthesis.		
	Explain the effects of limiting factors of photosynthesis.		
	H Explain the effects of more than one factor on the rate of photosynthesis.		
	H Describe how light intensity and rate of photosynthesis are related.		
	H Explain why the rate of photosynthesis is inversely proportional to the distance of a light source.		

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CB6c Absorbing water and mineral ions

Step	Learning outcome	Start of topic	End of topic
	Explain how root hair cells are adapted to taking in water and mineral ions.		
	Recall that substances can be transported by diffusion, osmosis and active transport.		
	Describe what is meant by a concentration gradient.		
	Explain why active transport is needed to transport some molecules.		
	Explain how molecules move by osmosis.		

CB6d Transpiration and translocation

Step	Learning outcome	Start of topic	End of topic
	Explain how xylem tissue is adapted to its functions.		
	Explain how phloem tissue is adapted to its function.		
	Describe how transpiration occurs.		
	Describe how translocation occurs.		
	Explain the effects of environmental factors on the rate of transpiration (light intensity, air movement, temperature, humidity).		
	Describe how to measure the rate of transpiration.		

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