












## CB6 Plant Structures and their Functions






### CB6a Photosynthesis

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







### CB6b Factors that affect photosynthesis

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

**CB6c Absorbing water and mineral ions**

Step	Learning outcome	Had a look	Nearly there	Nailed it!
	Explain how root hair cells are adapted to taking in water and mineral ions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Recall that substances can be transported by diffusion, osmosis and active transport.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Describe what is meant by a concentration gradient.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Explain why active transport is needed to transport some molecules.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Explain how molecules move by osmosis.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**CB6d Transpiration and translocation**

Step	Learning outcome	Had a look	Nearly there	Nailed it!
	Explain how xylem tissue is adapted to its functions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Explain how phloem tissue is adapted to its function.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Describe how transpiration occurs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Describe how translocation occurs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Explain the effects of environmental factors on the rate of transpiration (light intensity, air movement, temperature, humidity).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Describe how to measure the rate of transpiration.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>