















SB6 Plant Structures and their Functions






SB6a Photosynthesis

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







SB6b Factors that affect photosynthesis

Step	Learning outcome	Had a look	Nearly there	Nailed it!
 5 th	Recall what is meant by a rate of reaction.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 7 th	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 th	Explain the effects of limiting factors of photosynthesis.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 9 th	 Explain the effects of more than one factor on the rate of photosynthesis.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 8 th	 Describe how light intensity and rate of photosynthesis are related.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 9 th	 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"/>






SB6c Absorbing water and mineral ions

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





SB6d Transpiration and translocation

Step	Learning outcome	Had a look	Nearly there	Nailed it!
 6 th	Explain how xylem tissue is adapted to its functions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 6 th	Explain how phloem tissue is adapted to its function.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 7 th	Describe how transpiration occurs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 7 th	Describe how translocation occurs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 9 th	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"/>
 7 th	Describe how to measure the rate of transpiration.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>





SB6e Plant adaptations

Step	Learning outcome	Had a look	Nearly there	Nailed it!
 5 th	Identify the different tissues in a leaf.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 6 th	Describe the functions of the different tissues in a leaf.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 5 th	Describe some adaptations that plants have to living in extreme environments.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 7 th	Explain how leaf structure is adapted for photosynthesis and gas exchange.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 8 th	Explain some ways in which plants are adapted to reducing water loss in extreme environments.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SB6f Plant hormones

Step	Learning outcome	Had a look	Nearly there	Nailed it!
 6 th	Recall the names of three types of plant hormone.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 6 th	Define the term tropism.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 7 th	Identify negative and positive photo- and gravitropisms.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 9 th	Explain how auxins cause phototropism in plant shoots and roots.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SB6g Uses of plant hormones

Step	Learning outcome	Had a look	Nearly there	Nailed it!
 6 th	H Describe the uses of auxins by plant growers.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 6 th	H Describe the uses of gibberellins by plant growers and fruit farmers.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 6 th	H Describe how fruit is artificially ripened using plant hormones.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 9 th	H Compare the advantages and disadvantages of using plant hormones in fruit farming.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>