AQA Biology GCSE Student Checklist

B8 Photosynthesis

Name ..... Class ..... Date .....

Lesson	Aiming for 4		Aiming for 6		Aiming for 8	
B8.1 Photosynthesis	I can describe how plants get the materials they need for growth.	☐	I can describe how the leaf is adapted for photosynthesis.	☐	I can explain how adaptations of the leaf make photosynthesis efficient.	☐
	I can state the word equation for photosynthesis.	☐	I can write the balanced symbol equations for photosynthesis.	☐	I can explain how adaptations of the leaf make photosynthesis efficient.	☐
	I can describe why plants need light to carry out photosynthesis.	☐	I can describe an experiment to prove that plants carry out photosynthesis when exposed to light.	☐	I can explain why chlorophyll is needed for photosynthesis.	☐
B8.2 The rate of photosynthesis	I can list the factors that affect the rate of photosynthesis (temperature, carbon dioxide concentration, light intensity, amount of chlorophyll).	☐	I can describe why low temperature, shortage of carbon dioxide, shortage of light and shortage of chlorophyll limit the rate of photosynthesis.	☐	I can apply knowledge of enzymes to explain why a high temperature affects the rate of photosynthesis.	☐
	I can state simply the relationship between these factors and the rate of photosynthesis.	☐	I can suggest which factor limits the rate of photosynthesis in a given situation.	☐	I can predict how the rate of photosynthesis will be affected with more than one limiting factor.	☐
	I can plot a line graph and write a simple conclusion.	☐	I can interpret and explain graphs of photosynthesis rate involving one limiting factor.	☐	I understand and can use the inverse square law and light intensity in the context of photosynthesis.	☐
B8.3 How plants use glucose	I can list some ways in which plants use glucose.	☐	I can describe all the ways in which plants use glucose, including how they make proteins.	☐	I can explain how carnivorous plants are adapted to their environment.	☐
	I can test a leaf for starch and state some safety rules.	☐	I can evaluate risks involved in the starch test.	☐	I can explain how and why plants convert glucose to starch for storage.	☐

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B8.4 Making the most of photosynthesis			I can describe why greenhouse increase plant growth.	☐	I can explain in detail how using greenhouses can help control limiting factors and increase the rate of photosynthesis.	☐
			I can comment on the cost-effectiveness of adding heat, light, or carbon dioxide to greenhouses.	☐	I can use data to comment on the cost-effectiveness of greenhouses.	☐
			I can discuss the benefits of using greenhouses and hydroponics.	☐	I can evaluate the use of greenhouses and hydroponics in terms of economics.	☐