

Lesson	Know	Apply	Extend
9.4.1 Photosynthesis	I can state where photosynthesis occurs in a plant. <input type="checkbox"/>	I can describe the process of photosynthesis. <input type="checkbox"/>	I can explain the importance of photosynthesis in the food chain. <input type="checkbox"/>
	I can state the products of photosynthesis. <input type="checkbox"/>	I can state the word equation for photosynthesis. <input type="checkbox"/>	I can explain how the plant obtains the reactants for photosynthesis. <input type="checkbox"/>
	I can state how to test for the presence of oxygen. <input type="checkbox"/>	I can carry out an experiment to prove that oxygen is produced during photosynthesis. <input type="checkbox"/>	I can carry out and record observations for an experiment to prove that oxygen is produced during photosynthesis. <input type="checkbox"/>
9.4.2 Leaves	I can name the main structures of a leaf. <input type="checkbox"/>	I can describe the structure and function of the main components of a leaf. <input type="checkbox"/>	I can explain how the structures of the leaf make it well adapted for photosynthesis. <input type="checkbox"/>
	I can state the function of the chloroplasts in a leaf. <input type="checkbox"/>	I can explain the distribution of the chloroplasts in a leaf. <input type="checkbox"/>	I can explain the role of chloroplasts in photosynthesis. <input type="checkbox"/>
	I can use observations from the underside of a leaf to label a diagram. <input type="checkbox"/>	I can make observations of stomata from the underside of the leaf, and record observations as a labelled diagram. <input type="checkbox"/>	I can make observations of stomata from the underside of the leaf, and record as a labelled diagram with annotations. <input type="checkbox"/>
9.4.3 Investigating photosynthesis	I can carry out an experiment to test for the presence of starch in a leaf. <input type="checkbox"/>	I can carry out and record observations for an experiment to test for the presence of starch in a leaf. <input type="checkbox"/>	I can carry out and record observations for an experiment to test for the presence of starch in a leaf, explaining results obtained. <input type="checkbox"/>
	I can list the factors that affect the rate of photosynthesis. <input type="checkbox"/>	I can state the relationship between temperature, light intensity, and availability of carbon dioxide with the rate of photosynthesis. <input type="checkbox"/>	I can describe why low temperature, shortage of carbon dioxide, and shortage of light limit the rate of photosynthesis. <input type="checkbox"/>

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	I can state two experiments which can be used to prove photosynthesis has taken place. <input type="checkbox"/>		I can state and explain which method of investigating photosynthesis could be used to measure the rate of photosynthesis. <input type="checkbox"/>
9.4.4 Plants minerals	I can name the minerals required by plants. <input type="checkbox"/>	I can describe how a plant uses minerals for healthy growth. <input type="checkbox"/>	I can explain deficiency symptoms in plants. <input type="checkbox"/>
	I can state that nitrates are essential for plant growth. <input type="checkbox"/>	I can explain the role of nitrates in plant growth. <input type="checkbox"/>	I can explain how proteins are made for plant growth. <input type="checkbox"/>
	I can record measurements of plant growth. <input type="checkbox"/>	I can record measurements in a table, and calculate arithmetic means of results. <input type="checkbox"/>	I can record measurements in a table, and calculate arithmetic means of results, giving answers to the correct number of significant figures. <input type="checkbox"/>