

Photosynthesis (KS3)

Section A – Recall (1–2 marks each)

Q1 (1 mark)

What are the reactants of photosynthesis?

Q2 (1 mark)

What is the main product of photosynthesis?

Q3 (1 mark)

Name the gas released during photosynthesis.

Q4 (1 mark)

Which organ in a plant does photosynthesis occur in?

Q5 (2 marks)

State TWO raw materials needed for photosynthesis.

Q6 (2 marks)

State TWO products of photosynthesis.

Q7 (2 marks)

State TWO types of organism that carry out photosynthesis.

Section B – Understanding (2–3 marks each)

Q8 (3 marks)

Write the word equation for photosynthesis.

Q9 (3 marks)

Explain why photosynthesis is important for animals.

Q10 (3 marks)

Explain how photosynthesis affects oxygen and carbon dioxide levels in the atmosphere.

Q11 (3 marks)

Explain why photosynthetic organisms are essential for most life on Earth.

Section C – Application (4 marks each)

Q12 (4 marks)

A student at *Learntit* is learning about algae. Explain how algae contribute to life on Earth.

Q13 (4 marks)

Explain how the structure of leaves helps increase the rate of photosynthesis.

Section D – Extended Response (6 marks each)

Q14 (6 marks)

Explain the adaptations of leaves for photosynthesis.

Q15 (6 marks)

Explain why almost all life on Earth depends on photosynthetic organisms.

Total: ____ / 42

Percentage: ____%