

Student Name: _____

Class: _____

Student ID: _____

Date: _____

Assessment Details

Duration: 30 minutes	Total Marks: 20
Topics Covered:	<ul style="list-style-type: none">• Definition and importance of photosynthesis• Identification of reactants and products• Explanation of the role of chlorophyll and light energy

Instructions to Students:

1. Read all questions carefully before attempting.
2. Show all working out - marks are awarded for method.
3. Calculator use is permitted except where stated otherwise.
4. Write your answers in the spaces provided.
5. If you need more space, use the additional pages at the end.
6. Time management is crucial - allocate approximately 1 minute per mark.

Question 1

[1 mark]

What is the main purpose of photosynthesis?

A) To produce energy for plants

B) To produce oxygen for animals

C) To absorb water and minerals

D) To release carbon dioxide

Question 2

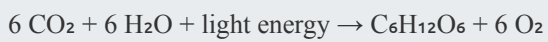
[2 marks]

What is the role of chlorophyll in photosynthesis?

Question 3

[2 marks]

Label the reactants and products in the following diagram of photosynthesis:



Question 4

[4 marks]

Explain the importance of light energy in photosynthesis.

Question 5

[1 mark]

What are the two main products of photosynthesis?

A) Glucose and oxygen

B) Starch and water

C) Cellulose and carbon dioxide

D) Protein and nitrogen

Question 6

[3 marks]

Label the structures involved in photosynthesis in the following diagram of a plant cell:

[Insert diagram of plant cell]

Question 7

[6 marks]

Describe the relationship between photosynthesis and the water cycle.

Question 8

[1 mark]

What is the effect of increased carbon dioxide levels on photosynthesis?

A) Decreased rate of photosynthesis

B) Increased rate of photosynthesis

C) No effect on photosynthesis

D) Unknown effect on photosynthesis

Additional Space for Answers

Three large, empty rectangular boxes with dashed borders, intended for providing answers to questions.

