

Photosynthesis — Products, Movement and Function

Use this worksheet after reading the lesson to practise the key ideas and prove you can meet the success criteria.

Name _____
Date _____
Class _____

1. Key Ideas

Photosynthesis doesn't end at glucose. Understanding where the products go, how they move through the plant, and how scientists came to understand the process is the full picture NESA expects you to know.

- Describe the two stages of photosynthesis at an overview level
- Investigate the function of structures in a plant

2. Success Criteria

By the end, you should be able to:

- Describe the two stages of photosynthesis at an overview level
- Trace the movement of photosynthesis products through a plant
- Explain the pressure-flow hypothesis for phloem transport

3. Key Terms

understand the process

the full picture NESA expects you to know

glucose and fructose that

the primary transport form of photosynthate in phloem

While leaves

the primary site, green stems, unripe fruit, and floral parts can also photosynthesise

The key requirement

the presence of chlorophyll and exposure to light

That level of detail

not assessed in Module 2

independent reactions

sometimes misleadingly called the "dark reactions" — but they do NOT occur only in the dark

4. Activity: Build the Lesson Map

Use the lesson to complete the table. Keep answers brief but specific.

Prompt	Your answer
Main concept	
Important example	
Common mistake to avoid	
How this links to the next lesson	

5. Short Answer Questions

1. Explain this lesson goal in your own words: "Describe the two stages of photosynthesis at an overview level". Use one specific example from the lesson.

BAND 3 **2 MARKS**

2. Apply this idea to a new example: "Trace the movement of photosynthesis products through a plant". Show your reasoning clearly.

BAND 4 **3 MARKS**

3. Analyse why this idea matters for understanding Photosynthesis — Products, Movement and Function: "Explain the pressure-flow hypothesis for phloem transport".

BAND 5 **4 MARKS**

6. Extend: Apply the Idea

BAND 5/6

5 MARKS

A student gives a memorised answer about Photosynthesis — Products, Movement and Function but does not use evidence or reasoning.

Improve the answer by writing a stronger response that uses accurate terminology, a relevant example and a clear explanation.

7. Multiple Choice

1. What is the best first step when answering a question about Photosynthesis — Products, Movement and Function?

- A. Identify the key concept being tested
- B. Write every fact from memory
- C. Ignore the command word
- D. Skip examples and evidence

2. Which answer would show stronger understanding of Photosynthesis — Products, Movement and Function?

- A. An answer with accurate terms and reasoning
- B. A copied definition only
- C. A single-word response
- D. An answer with no example

3. What should you do if a question asks you to explain?

- A. Link the idea to a reason or cause
- B. List unrelated facts
- C. Only draw a diagram
- D. Write the shortest possible answer

8. Success Criteria Proof

Finish with evidence that you can do each success criterion.

SUCCESS CRITERION 1

Prove that you can: Describe the two stages of photosynthesis at an overview level

BAND 3 **2 MARKS**

SUCCESS CRITERION 2

Prove that you can: Trace the movement of photosynthesis products through a plant

BAND 4 **3 MARKS**

SUCCESS CRITERION 3

Prove that you can: Explain the pressure-flow hypothesis for phloem transport

BAND 5 **4 MARKS**

One thing I still need help with:
