

Plants Need Inputs Too - Water, Minerals and Light

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

Plants are living systems too, so they also need key inputs to survive and grow. This lesson identifies `water`, `minerals` and `light`, and links plant structures such as roots and leaves to intake and exchange.

- plants need water, minerals and light
- plants rely on environmental inputs just as animals do, though the inputs are different

2. Success Criteria

By the end, you should be able to:

- plants need water, minerals and light
- roots are linked to water and mineral intake
- leaves are linked to light access and gas exchange

3. Key Terms

Input

A useful substance or factor entering or supporting a living system.

Water

A key input plants need for survival and growth.

Minerals

Useful substances taken in from the environment, often through roots.

Light

An important environmental input for plants.

Root

A plant structure linked to taking in water and minerals.

Leaf

A plant structure linked to light access and gas exchange with the environment.

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: "plants need water, minerals and light". Use one specific example from the lesson.

CORE

2. Apply this idea to a new example: "roots are linked to water and mineral intake". Show your reasoning clearly.

CORE

3. Analyse why this idea matters for understanding Plants Need Inputs Too - Water, Minerals and Light: "leaves are linked to light access and gas exchange".

REASONING

6. Extend: Apply the Idea

A student says, "I understand Plants Need Inputs Too - Water, Minerals and Light because I memorised the definition."

Explain why memorising a definition is not enough. Use an example from the lesson to show deeper understanding.

7. Multiple Choice

1. What is the best first step when answering a question about Plants Need Inputs Too - Water, Minerals and Light?

- 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 Plants Need Inputs Too - Water, Minerals and Light?

- 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: plants need water, minerals and light

SUCCESS CRITERION 2

Prove that you can: roots are linked to water and mineral intake

SUCCESS CRITERION 3

Prove that you can: leaves are linked to light access and gas exchange

One thing I still need help with:
