

Plant Systems as Living Systems

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

Students sometimes assume that systems only belong to animals because animals have obvious organs like hearts and lungs. This lesson corrects that directly by showing that plants are also organised living systems with interacting components such as roots, stems and leaves.

- plants are organised living systems
- systems can look different in plants and animals

2. Success Criteria

By the end, you should be able to:

- plants are organised living systems
- roots, stems and leaves are important interacting plant components
- plant structures support transport, support and survival

3. Key Terms

Root

A plant structure that helps anchor the plant and absorb water and minerals.

Stem

A plant structure that supports the plant and helps connect roots and leaves.

Leaf

A plant organ involved in exchange with the environment and food-making processes.

Component

One part of a larger system.

Support

Helping the organism stay upright or maintain structure.

Survival

The ability of a living thing to stay alive by getting what it needs and functioning effectively.

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 are organised living systems". Use one specific example from the lesson.

CORE

2. Apply this idea to a new example: "roots, stems and leaves are important interacting plant components". Show your reasoning clearly.

CORE

3. Analyse why this idea matters for understanding Plant Systems as Living Systems: "plant structures support transport, support and survival".

REASONING

6. Extend: Apply the Idea

A student says, "I understand Plant Systems as Living Systems 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 Plant Systems as Living Systems?

- 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 Plant Systems as Living Systems?

- 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 are organised living systems

SUCCESS CRITERION 2

Prove that you can: roots, stems and leaves are important interacting plant components

SUCCESS CRITERION 3

Prove that you can: plant structures support transport, support and survival

One thing I still need help with:
