

Organisation Synthesis - From Cells to 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

This lesson consolidates the first block of the unit by pulling together cells, tissues, organs, organ systems and plant systems. The goal is not more isolated facts. The goal is to explain how organisation helps living things function as connected systems.

- cells, tissues, organs and organ systems describe increasing organisation
- living systems are defined by connected function, not by looking the same

2. Success Criteria

By the end, you should be able to:

- cells, tissues, organs and organ systems describe increasing organisation
- plants and animals both have organised interacting components
- structure and function can be linked at each level

3. Key Terms

Organisation

The way parts are arranged and connected in a living thing.

Interaction

When one part affects or supports another part.

System

A set of connected parts working together.

Cell

The basic unit of living things.

Organ system

A group of organs that work together to carry out major functions.

Structure and function

The scientific idea that what something is like helps explain what it does.

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: "cells, tissues, organs and organ systems describe increasing organisation". Use one specific example from the lesson.

CORE

2. Apply this idea to a new example: "plants and animals both have organised interacting components". Show your reasoning clearly.

CORE

3. Analyse why this idea matters for understanding Organisation Synthesis - From Cells to Systems: "structure and function can be linked at each level".

REASONING

6. Extend: Apply the Idea

A student says, "I understand Organisation Synthesis - From Cells to 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 Organisation Synthesis - From Cells to 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 Organisation Synthesis - From Cells to 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: cells, tissues, organs and organ systems describe increasing organisation

SUCCESS CRITERION 2

Prove that you can: plants and animals both have organised interacting components

SUCCESS CRITERION 3

Prove that you can: structure and function can be linked at each level

One thing I still need help with:
