SCIENCE YEAR 8 - UNIT 2 - LESSON 11

The Periodic Table as a Scientific System

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 opens the periodic-table block by treating the table as a scientific organisation system, not just a chart to memorise.

- the periodic table organises elements
- organisation makes comparison easier

2. Success Criteria

By the end, you should be able to:

- the periodic table organises elements
- element boxes include name, symbol and atomic number
- scientists use the table to communicate clearly

3. Key Terms

Key idea
The central concept from The Periodic Table as a Scientific System.

Evidence
Information, observations or calculations used to support an answer.

Explain
Give a reasoned answer that links cause and effect.

Apply
Use a learned idea in a new example, problem or scenario.

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: "the periodic table organises elements". Use one specific example from the lesson.

CORE

2. Apply this idea to a new example: "element boxes include name, symbol and atomic number". Show your reasoning clearly.

CORE

3. Analyse why this idea matters for understanding The Periodic Table as a Scientific System: "scientists use the table to communicate clearly".

REASONING

6. Extend: Apply the Idea

A student says, "I understand The Periodic Table as a Scientific System 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 The Periodic Table as a Scientific System?

☐ 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 The Periodic Table as a Scientific System?

☐ 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: the periodic table organises elements

SUCCESS CRITERION 2

Prove that you can: element boxes include name, symbol and atomic number

SUCCESS CRITERION 3

Prove that you can: scientists use the table to communicate clearly

One thing I still need help with: