SCIENCE YEAR 8 - UNIT 2 - LESSON 14

Simple Patterns in the Periodic Table

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 introduces gentle pattern recognition: elements in the same group can share some similar properties.

- the periodic table can show patterns
- patterns help make the table meaningful

2. Success Criteria

By the end, you should be able to:

- the periodic table can show patterns
- elements in the same group can share some broad similarities
- Year 8 uses descriptive patterns only

3. Key Terms

Key idea
The central concept from Simple Patterns in the Periodic Table.

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 can show patterns". Use one specific example from the lesson.

CORE

2. Apply this idea to a new example: "elements in the same group can share some broad similarities". Show your reasoning clearly.

CORE

3. Analyse why this idea matters for understanding Simple Patterns in the Periodic Table: "Year 8 uses descriptive patterns only".

REASONING

6. Extend: Apply the Idea

A student says, "I understand Simple Patterns in the Periodic Table 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 Simple Patterns in the Periodic Table?

☐ 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 Simple Patterns in the Periodic Table?

☐ 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 can show patterns

SUCCESS CRITERION 2

Prove that you can: elements in the same group can share some broad similarities

SUCCESS CRITERION 3

Prove that you can: Year 8 uses descriptive patterns only

One thing I still need help with: