SCIENCE YEAR 8 - UNIT 2 - LESSON 15

Using the Periodic Table to Compare Elements

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 closes the periodic-table block by combining several table-reading skills into full comparisons of selected elements.

- element comparison can use several table features
- one-feature comparisons are weaker than combined comparisons

2. Success Criteria

By the end, you should be able to:

- element comparison can use several table features
- position, symbol, atomic number and category all matter
- good comparisons use evidence

3. Key Terms

Key idea
The central concept from Using the Periodic Table to Compare Elements.

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: "element comparison can use several table features". Use one specific example from the lesson.

CORE

2. Apply this idea to a new example: "position, symbol, atomic number and category all matter". Show your reasoning clearly.

CORE

3. Analyse why this idea matters for understanding Using the Periodic Table to Compare Elements: "good comparisons use evidence".

REASONING

6. Extend: Apply the Idea

A student says, "I understand Using the Periodic Table to Compare Elements 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 Using the Periodic Table to Compare Elements?

☐ 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 Using the Periodic Table to Compare Elements?

☐ 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: element comparison can use several table features

SUCCESS CRITERION 2

Prove that you can: position, symbol, atomic number and category all matter

SUCCESS CRITERION 3

Prove that you can: good comparisons use evidence

One thing I still need help with: