SCIENCE YEAR 8 - UNIT 2 - LESSON 13

Metals, Non-metals and Metalloids

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 adds the broad categories of the periodic table and links them to simple observable properties.

- the periodic table includes broad categories
- categories are linked to broad property patterns

2. Success Criteria

By the end, you should be able to:

- the periodic table includes broad categories
- metals and non-metals occupy different broad regions
- metalloids sit between the two broad categories

3. Key Terms

Key idea
The central concept from Metals, Non-metals and Metalloids.

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 includes broad categories". Use one specific example from the lesson.

CORE

2. Apply this idea to a new example: "metals and non-metals occupy different broad regions". Show your reasoning clearly.

CORE

3. Analyse why this idea matters for understanding Metals, Non-metals and Metalloids: "metalloids sit between the two broad categories".

REASONING

6. Extend: Apply the Idea

A student says, "I understand Metals, Non-metals and Metalloids 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 Metals, Non-metals and Metalloids?

☐ 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 Metals, Non-metals and Metalloids?

☐ 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 includes broad categories

SUCCESS CRITERION 2

Prove that you can: metals and non-metals occupy different broad regions

SUCCESS CRITERION 3

Prove that you can: metalloids sit between the two broad categories

One thing I still need help with: