

Lesson 4

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

Chemistry Year 12 — Module 7: Organic Chemistry

- Key definitions and terminology for organic chemistry reactions
- The relationship between reaction conditions and products in organic chemistry

2. Success Criteria

By the end, you should be able to:

- Key definitions and terminology for organic chemistry reactions
- The conditions and reagents for major hydrocarbon reaction types
- How to identify functional groups from structural formulas

3. Key Terms

Key idea

The central concept from Lesson 4.

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: "Key definitions and terminology for organic chemistry reactions". Use one specific example from the lesson.

BAND 3 **2 MARKS**

2. Apply this idea to a new example: "The conditions and reagents for major hydrocarbon reaction types". Show your reasoning clearly.

BAND 4 **3 MARKS**

3. Analyse why this idea matters for understanding Lesson 4: "How to identify functional groups from structural formulas".

BAND 5 **4 MARKS**

6. Extend: Apply the Idea

BAND 5/6 **5 MARKS**

A student gives a memorised answer about Lesson 4 but does not use evidence or reasoning.

Improve the answer by writing a stronger response that uses accurate terminology, a relevant example and a clear explanation.

7. Multiple Choice

1. What is the best first step when answering a question about Lesson 4?

- 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 Lesson 4?

- 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: Key definitions and terminology for organic chemistry reactions

BAND 3 **2 MARKS**

SUCCESS CRITERION 2

Prove that you can: The conditions and reagents for major hydrocarbon reaction types

BAND 4 **3 MARKS**

SUCCESS CRITERION 3

Prove that you can: How to identify functional groups from structural formulas

BAND 5 **4 MARKS**

One thing I still need help with:
