

# Module Review and Exam Preparation

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

You have journeyed through rates of change, limits, derivatives, optimisation, integration, and applications. In this final lesson, we pull everything together: the essential formulae, the most common exam traps, and a set of mixed practice questions designed to test your readiness for the Module 3 assessment.

- All core formulae from Module 3
- How topics connect across the module

## 2. Success Criteria

By the end, you should be able to:

- All core formulae from Module 3
- Common command words and what they require
- Typical mark allocations and time suggestions

## 3. Key Terms

### Derivative

The rate of change of a function at a point; the gradient of the tangent.

### Differentiation

The process of finding the derivative of a function.

### Stationary Point

A point where the derivative equals zero.

### Chain Rule

A rule for differentiating composite functions:  
 $dy/dx = dy/du \times du/dx$ .

### Product Rule

A rule for differentiating products:  $d(uv)/dx = u(dv/dx) + v(du/dx)$ .

### Exam Technique

Strategies for showing working, choosing methods, and checking answers under exam conditions.

## 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: "All core formulae from Module 3". Use one specific example from the lesson.

**BAND 3** **2 MARKS**

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2. Apply this idea to a new example: "Common command words and what they require". Show your reasoning clearly.

**BAND 4** **3 MARKS**

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3. Analyse why this idea matters for understanding Module Review and Exam Preparation: "Typical mark allocations and time suggestions".

**BAND 5** **4 MARKS**

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## 6. Extend: Apply the Idea

BAND 5/6

5 MARKS

**A student gives a memorised answer about Module Review and Exam Preparation 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.

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## 7. Multiple Choice

1. What is the best first step when answering a question about Module Review and Exam Preparation?

- 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 Module Review and Exam Preparation?

- 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: All core formulae from Module 3**

**BAND 3**

**2 MARKS**

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### SUCCESS CRITERION 2

**Prove that you can: Common command words and what they require**

**BAND 4**

**3 MARKS**

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### SUCCESS CRITERION 3

**Prove that you can: Typical mark allocations and time suggestions**

**BAND 5**

**4 MARKS**

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**One thing I still need help with:**

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