MATHS STANDARD YEAR 11 - MODULE 2 - LESSON 1

Working With Formulas and Units

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

Every measurement means something — but only if you use the right units and substitute into formulas correctly.

- The metric units for length, area, volume and capacity
- Why area conversions square the length factor

2. Success Criteria

By the end, you should be able to:

- The metric units for length, area, volume and capacity
- Conversion factors between mm, cm, m and km
- Conversion factors for area and volume units

3. Key Terms

Key idea
The central concept from Working With Formulas and Units.

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 metric units for length, area, volume and capacity". Use one specific example from the lesson.

BAND 3 2 MARKS

2. Apply this idea to a new example: "Conversion factors between mm, cm, m and km". Show your reasoning clearly.

BAND 4 3 MARKS

3. Analyse why this idea matters for understanding Working With Formulas and Units: "Conversion factors for area and volume units".

BAND 5 4 MARKS

6. Extend: Apply the Idea

BAND 5/6 5 MARKS

A student gives a memorised answer about Working With Formulas and Units 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 Working With Formulas and Units?

☐ 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 Working With Formulas and Units?

☐ 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 metric units for length, area, volume and capacity

BAND 3 2 MARKS

SUCCESS CRITERION 2

Prove that you can: Conversion factors between mm, cm, m and km

BAND 4 3 MARKS

SUCCESS CRITERION 3

Prove that you can: Conversion factors for area and volume units

BAND 5 4 MARKS

One thing I still need help with: