

Module 2 Review

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

The complete reference for Module 2 — Introduction to Quantitative Chemistry. Every formula, every key term, every exam question type, and worked examples of each. Use this as your study reference before the module quiz and the HSC.

- Key facts and terms for Module 2 Review
- How the main ideas in Module 2 Review connect

2. Success Criteria

By the end, you should be able to:

- Key facts and terms for Module 2 Review
- Where this lesson fits in Module 2
- How the main ideas in Module 2 Review connect

3. Key Terms

Mole

The SI unit for amount of substance; contains exactly 6.022×10^{23} particles.

Avogadro's Number

6.022×10^{23} — the number of particles in one mole of a substance.

Molar Mass

The mass of one mole of a substance, measured in g/mol.

Limiting Reagent

The reactant that is completely consumed first, limiting the amount of product formed.

Empirical Formula

The simplest whole-number ratio of atoms in a compound.

Molecular Formula

The actual number of atoms of each element in a molecule of a compound.

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 facts and terms for Module 2 Review". Use one specific example from the lesson.

BAND 3 **2 MARKS**

2. Apply this idea to a new example: "Where this lesson fits in Module 2". Show your reasoning clearly.

BAND 4 **3 MARKS**

3. Analyse why this idea matters for understanding Module 2 Review: "How the main ideas in Module 2 Review connect".

BAND 5 **4 MARKS**

6. Extend: Apply the Idea

BAND 5/6

5 MARKS

A student gives a memorised answer about Module 2 Review 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 Module 2 Review?

- 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 2 Review?

- 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 facts and terms for Module 2 Review

BAND 3

2 MARKS

SUCCESS CRITERION 2

Prove that you can: Where this lesson fits in Module 2

BAND 4

3 MARKS

SUCCESS CRITERION 3

Prove that you can: How the main ideas in Module 2 Review connect

BAND 5

4 MARKS

One thing I still need help with:
