

Review and Connections

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 reached the final lesson of Module 2. This lesson brings together everything you have learned about trigonometric functions and graphs — from exact values and identities to sketching, solving, and modelling. Use this review to solidify your understanding before tackling the Module Quiz.

- All six trig functions and their reciprocal relationships
- How all trig ideas connect back to the unit circle

2. Success Criteria

By the end, you should be able to:

- All six trig functions and their reciprocal relationships
- The three Pythagorean identities
- The domains, ranges, periods, and key features of all trig graphs

3. Key Terms

Periodic Function

A function that repeats its values at regular intervals.

Radian

The natural unit for angle measure in calculus and physics.

Amplitude

The maximum displacement from the centre line of a periodic function.

Phase Shift

A horizontal translation of a trigonometric graph.

Identity

An equation that is true for all valid values of the variable.

Exact Value

A trig value expressed using surds and fractions, not decimals.

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 six trig functions and their reciprocal relationships". Use one specific example from the lesson.

BAND 3 **2 MARKS**

2. Apply this idea to a new example: "The three Pythagorean identities". Show your reasoning clearly.

BAND 4 **3 MARKS**

3. Analyse why this idea matters for understanding Review and Connections: "The domains, ranges, periods, and key features of all trig graphs".

BAND 5 **4 MARKS**

6. Extend: Apply the Idea

BAND 5/6

5 MARKS

A student gives a memorised answer about Review and Connections 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 Review and Connections?

- 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 Review and Connections?

- 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 six trig functions and their reciprocal relationships

BAND 3 **2 MARKS**

SUCCESS CRITERION 2

Prove that you can: The three Pythagorean identities

BAND 4 **3 MARKS**

SUCCESS CRITERION 3

Prove that you can: The domains, ranges, periods, and key features of all trig graphs

BAND 5 **4 MARKS**

One thing I still need help with:
