Year 12 Mathematics Teacher 1
Learning Programme 3

The LORIC skill focus for his LP is: RESILIENCE

The Moral Virtues focus for this LP are: RESPECT and JUSTICE

Respect - treat others how you would wish to be treated yourself.

Justice - our College rules are fair and reasonable.

What will I be learning about in this Learning Programme?
In LP3 I will be learning about proof, trigonometry and identities.

Where have I seen this learning before?
GCSE: sine and cosine rule, transforming graphs, solving equations.

What could I use it for?
The knowledge and skills I will learn in this learning programme will allow me to solve trigonometric problems. These skills are useful in more complex algebra and calculus used in careers such as engineering.

Literacy:
• Capital letters must be used at the start of sentences and for the first letter of proper nouns
• Full stops must be used at the end of a sentence
• Question marks must be used at the end of a question
• Apostrophes should only be used for possession or omission
• Days of the week and months must be spelled correctly
• Key words must be spelled correctly

		Key Vocabulary	Homework
In LP3.1, I will know:	06/01/25 - (WK 2)		
how to formulate mathematical proofs; the methods to prove statements algebraically.		Proof	Proof
In LP3.2, I will know:	13/01/25 - (WK 1)	**Key Vocabulary**	**Homework**
how to solve problems with the cosine rule; how to solve problems with the sine rule.		Trigonometry	Sine and Cosine Rule
In LP3.3, I will know:	20/01/25 - (WK 2)	**Key Vocabulary**	**Homework**
how to find the area of any triangle using sine; how to solve problems involving triangles.		Area	Area
In LP3.4, I will know:	27/01/25 - (WK 1)	**Key Vocabulary**	**Homework**
how to interpret graphs for sine, cosine and tangent; how to transform graphs of trigonometric functions. Extended Task.		Transform	Transformations
In LP3.5, I will know:	03/02/25 - (WK 2)	**Key Vocabulary**	**Homework**
how to find exact values of trigonometric ratios; how to use trigonometric identities.		Sine	Identities
In LP3.6, I will know:	10/02/25 - (WK 1)	**Key Vocabulary**	**Homework**
how to solve trigonometric equations.		Cosine	Trigonometric Equations 1
LP2 RLW, I will:	24/02/25 - (WK 2)	**Key Vocabulary**	**Homework**
review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.			Exam Paper
In LP3.7, I will know:	03/03/25 - (WK 1)	**Key Vocabulary**	**Homework**
how to solve trigonometric equations using the identities. Extended Task.		Tangent	Trigonometric Equations 2

PRT Task 1

PRT Task 2

Resources to support learning:
Pupils have access to knowledge organisers and Sparx Maths to further support them in their Mathematics revision beyond the classroom. All weekly homework tasks will be set on Sparx Maths and all questions have a video to support. Pupils can access any topic in the Independent Practice section on Sparx Maths. Sparx Maths has been introduced to the pupils by their teachers and their login details should be written in their planner.

FFET Award Challenge for this Learning Programme:
Write a revision map for a chapter covered so far.