



Year 13 Mathematics Teacher 1 Learning Programme 3

The LORIC skill focus for his LP is: RESILIENCE			Literacy:
The Moral Virtues focus for this LP are: RESPECT and JUSTICE			 Capital letters must be used at the start of sentences and for the first letter of
Respect - treat others how you would wish to be treated yourself.			proper nouns
Justice - our College rules are fair and reasonable.			Full stops must be used at the end of a
What will I be learning about in this Learning Programme?			sentence
In LP3 I will be learning about differentiation and integration.			Question marks must be used at the
			end of a question
			Apostrophes should only be used for
Where have I seen this learning before?			possession or omission
Year 12: polynomial differentiation and integration.			Days of the week and months must be spelled correctly
			Key words must be spelled correctly
			,
What could I use it for?			
The knowledge and skills I will learn in this learning program			
problems which are useful in careers such as engineering.			
In LP3.1, I will know:	06/01/25 - (WK 2)	Key Vocabulary	Homework
how to use the quotient rule for differentiation;			Quotient Rule
how to differentiate trigonometric functions;			
how to differentiate parametric equations.		Quotient	
In LP3.2, I will know:	13/01/25 - (WK 1)	Key Vocabulary	Homework
how to differentiate implicitly;	13/01/23 - (WK 1)	ney vocabulary	Second Derivatives
how to use second derivatives;			Second Derivatives
how to solve rates of change problems.		Implicit	
In LP3.3, I will know:	20/01/25 - (WK 2)	Key Vocabulary	Homework
how to integrate non-polynomial functions;			Integration 1
how to integrate functions of the form f(ax+b).		Integral	
		integral	
In LP3.4, I will know:	27/04/2E (MW 1)	W. W. H.	
how to integrate with trigonometric identities;	27/01/25 - (WK 1)	Key Vocabulary	Homework Integration 2
how to use the chain rule in reverse;			megration 2
how to integrate by substitution.		Identity	
		· ·	
Extended Task.			
In LP3.5, I will know:	03/02/25 - (WK 2)	Key Vocabulary	Homework
how to integrate by parts;			Integration by Parts
how to integrate partial fractions.			
		Partial Fraction	
In LP3.6, I will know:	10/02/25 - (WK 1)	Vov Vocabulani	Homework
how to use integration to find areas;	10/02/23 - (WK 1)	Key Vocabulary	Trapezium Rule
how to use the trapezium rule;			The second secon
how to work with differential equations.		Differential Equation	
LP2 RLW, I will:	24/02/25 - (WK 2)	Key Vocabulary	Homework
routou my loarning rocalling and analytical backers. It does	nd focus on closing any gaps in any language		Exam Paper
review my learning, recalling and applying key knowledge, a	nu rocus on closing any gaps in my knowledge.		
In LP3.7, I will know:	03/03/25 - (WK 1)	Key Vocabulary	Homework
how to represent integration as the limit of a sum;	55/55/25 (TREE)	ney vocabulary	Integration 3
how to integrate parametric equations.			cg/ddion 5
		Limit	
Extended Task.			
Resources to support learning:			



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:

Complete a Maths exam paper from Maths Genie independently.