



Year 12 Mathematics - Core Learning Programme 5

Learning Programme 5			
The LORIC skill focus for his LP is: COMMUNICATION. The Moral Virtues focus for this LP are: COURAGE and HUMILITY. Courage - Acting with bravery and overcoming fears.			Literacy:
			Capital letters must be used at the star of sentences and for the first letter of
What will I be learning about in this Learning Programme?			 Full stops must be used at the end of sentence
In LPS I will be learning about in this Learning Programme:			Question marks must be used at the
			end of a question
			Apostrophes should only be used for
			possession or omission
Where have I seen this learning before? GCSE: functions, algebraic fractions			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 programme	will allow me to solve advanced algebraic proble	ems. This knowledge will later be applied to	
advanced calculus.			
In LP5.1, I will know:	12/05/25 - (WK 1)	Key Vocabulary	Homework
how to find the area under a curve with integration;		ney vocabuldly	Integration
how to find the area under the x-axis curve with integration;			egration
how to find the area between curves and lines with integration.		Integral	
••••••••••••••••••••••••••••••••••••••		c.g. d.	
In LP5.2, I will know:	19/05/25 - (WK 2)	Key Vocabulary	Homework
how to use and represent vectors in two dimensions;			Vectors 1
how to calculate the magnitude and direction of vectors.			
, and the second		Magnitude	
LP5 RLW, I will:	02/06/25 - (WK 1)		
			Revision
review my learning, recalling and applying key knowledge, and f	ocus on closing any gaps in my knowledge.		
In LP5.3, I will know:	09/05/25 - (WK 2)	Key Vocabulary	Homework
how to solve problems with position vectors;		,	Vectors 2
how to solve geometrical problems with vectors.			
·		Parallel	
Extended Task.			
In LP5.4, I will know:	16/06/25 - (WK 1)	Key Vocabulary	Homework
how to form an algebraic proof by contradiction;		,	Algebraic methods
how to manipulate algebraic fractions.			
, , , , , , , , , , , , , , , , , , ,		Contradiction	
In LP5.5, I will know:	23/06/25 - (WK 2)	Key Vocabulary	Homework
how to use partial fractions including with repeated factors;			Partial Fractions
how to solve algebraic division problems.			
		Factor	
In LP5.6, I will know:	30/06/25 - (WK 1)	Key Vocabulary	Homework
how to use the modulus function;			Functions 1
how to represent functions including using mappings.			
		Modulus	
Extended Task.			
In LP5.7, I will know:	07/06/25 - (WK 2)	Key Vocabulary	Homework
how to solve composite function problems;			Functions 2
how to find inverse functions.			



Use your knowledge organisers to support with revision and recall. Here are some online resources to further support you in your Mathematics revision beyond the classroom. All weekly homework tasks area based on the exercises from the book. In addition to homework, Pupils should use questions not used in class plus the review exercises to help support learning from outside the classroom. Online Resource for homework and exam practice: https://www.drfrostmaths.com/. Topic based exam questions - https://www.mathsgenie.co.uk/

FFET Award Challenge for this Learning Programme:
Create a revision mind/map or poster of any of the Pure Maths chapters.