

Year 12 Mathematics Teacher 2

Learning Programme 3

<p>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.</p>		<p>Literacy:</p> <ul style="list-style-type: none"> • 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 	
<p>What will I be learning about in this Learning Programme? In LP3 I will be learning about hypothesis testing, Binomial expansion and vectors.</p> <p>Where have I seen this learning before? GCSE: expanding brackets and vector notation.</p> <p>What could I use it for? The knowledge and skills I will learn in this learning programme will allow me to solve algebraic and geometrical problems. These skills are useful in more complex algebra used in careers such as engineering.</p>			
In LP3.1, I will know:	06/01/25 - (WK 2)	Key Vocabulary	Homework
the meaning of a hypothesis; how to perform a hypothesis test.		Hypothesis	Hypothesis Testing 1
In LP3.2, I will know:	13/01/25 - (WK 1)	Key Vocabulary	Homework
how to solve problems involving one-tail testing; how to solve problems involving two-tail testing.		One-Tail	Hypothesis Testing 2
In LP3.3, I will know:	20/01/25 - (WK 2)	Key Vocabulary	Homework
how to complete and use rows in Pascal's triangle; how to use factorial notation.		Factorial	Factorials
In LP3.4, I will know:	27/01/25 - (WK 1)	Key Vocabulary	Homework
how to expand expressions using Binomial Expansion; how to solve binomial problems; how to solve Binomial estimation problems. Extended Task.		Binomial	Binomial Expansion
In LP3.5, I will know:	03/02/25 - (WK 2)	Key Vocabulary	Homework
how to use vector notation; how to represent vectors.		Vector	Vector Notation
In LP3.6, I will know:	10/02/25 - (WK 1)	Key Vocabulary	Homework
the meaning of magnitude and direction in relation to vectors; how to solve geometrical problems with vectors.		Magnitude	Vector Problems
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 use vectors in modelling problems. Extended Task.		Modelling	Modelling with Vectors
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.			

PRT Task 1

PRT Task 2