



Year 13 Mathematics **Learning Programme 4**

The LORIC skill focus for his LP is: INITIATIVE.		iteracy: Capital letters must be used at the st
The Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE.		of sentences and for the first letter of
ntegrity - Having strong moral principles.		roper nouns
Gratitude - Feeling and expressing thanks.		Full stops must be used at the end o
What will I be learning about in this Learning Programme?	s	entence
n LP3 I will be learning about locating roots using numerical methods and integrations.	-	Question marks must be used at the
		nd of a question
		Apostrophes should only be used for
Mhara haya Lasan khir lasaning bafaya 3	If the second se	ossession or omission
Where have I seen this learning before? Year 12: Integration of polynomials.		Days of the week and months must l
teal 12. Integration of polynomials.		pelled correctly Key words 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 enable me to integra <mark>te to c</mark> alculate areas under an	y curve. This will in turn enable me to	
solve differential equation problems such as those used in physics and engineering.		
n LP4.1, I will know: 04/03/24 - (WK 1)		Homework
now to locate roots of equations using numerical methods;		Numerical methods
how to use iteration to find roots;		Worksheet
now to use the Newton-Raphson process.	Iteration	
n LP4.2, I will know: 11/03/24 - (WK 2)	Key Vocabulary	Homework
how to integrate standard functions;		Integration
how to integrate functions of the form f(ax+b);		Dr Frost
how to integrate using the trigonometric identities.	Identities	D1 11030
n LP4.3, I will know: 18/03/24 - (WK 1)	Key Vocabulary	Homework
now to apply the reverse of the chain rule;		Integration by Substitution
how to integrate using substitution;		Worksheet
how to integrate by parts.	Integral	
Extended Task.		
In LP4.4, I will know: 25/03/24 - (WK 2)		Homework
how to integrate with partial fractions;		Integration by Parts
how to find areas using integration; how to use the trapezium rule.	Trapezium	Dr Frost
tow to use the trapezium rule.	Trupezium	
In LP4.5, I will know: 15/04/24 - (WK 1)	Key Vocabulary	Homework
now to solve differential equations;		Differential Equations
how to integrate using the limit of a sum.		Worksheet
	Differential	
n LP4.6, I will know: 22/04/24 - (WK 2)	Key Vocabulary	Homework
now to solve problems with coordinates in 3D;		3D Vectors
now to solve vectors problems in 3D.		Dr Frost
	Magnitude	
Carried and Trade		
Extended Task.	W. 11. 1	U-manusali.
n LP4.7, I will know: 29/04/24 - (WK 1)		Homework
now to solve variable acceleration problems.		Variable Acceleration Worksheet
	Variable	TTO INSTICCT
	variable	
n LP4.8, I will know: 06/05/24 - (WK 2)	Key Vocabulary	Homework
revision of Pure, Mechanics and Statistics modules.		Exam Practice
	Revision	
	THE VISION	
	Nevision	

- Online Resource for homework and exam practice: https://www.drfrostmaths.com/
- Topic based exam questions https://www.mathsgenie.co.uk/

Create a revision mind/map or poster of any of the Pure Maths chapters.