A-Level Further Maths @ WBS Year 13 Roadmap

Subject Aim: To succeed with the understanding of the most challenging Mathematical concepts and ideas. To push problem solving techniques beyond the standard methods required in A-Level Maths and be able to apply them to any of the Pure, Mechanics and Discrete strands of the course.

	Y13 CALCULUS	VECTORS 2	Assessment – 4 Key Measures
Promo	 Product, Quotient & Chain Rules Integration Using Partial Fractions 	 Vector Product Equation of a Plane Finding Distances 	1. Each week, you will sit a Weekly Assessment with one of your teachers. This is a past exam question, designed to prepare you for the challenges of the terminal exams.
Autumn Te	SERIES & UMERICAL ETHODS	COMPLEX NUMBERS 2	2. On the completion of each Unit, you will sit a Key Assessment . These assessments cover the content of the Unit most recently covered but will also reference previously gained knowledge. These tests are 1 hour long and out of 50 marks.
erm	 Mid-Ordinate, Simpson's & L'Hôpital's Rule 	 De Moivre's Theorem Roots of Unity 	3. In the Autumn term, you sit Year 13 Exams . This is your second Mock Exam and will cover all content that has been covered up to this point.
	ADVANCED	HATRICES 2	4. In the Easter term, you sit 2 further Mock Exams . These will cover all content from the course and will inform your final predicted grade.
	 Improper Integrals Inverse Functions 	 Determinants Eigenvalues 	All assessment is graded and fed back in class. We then provide detailed walkthrough solutions, either in person or via video on Brightspace.
	Reduction		Homework and Revision
	 Formulae Polar Graphs & Areas Arc Lengths 	THEORY > Subgroups > Isomorphisms	• Students are expected to complete the exercises that are attached to the end of our teaching PowerPoints. This should be done before the next lesson whenever possible.
Spri			 Where appropriate, homework is set on Dr Frost Maths to help students prepare for assessments.
ng EC El	QUATIONS & JLER	MECHANICS 2	Revision resources and practice questions for assessments are published on Brightspace.
3	> Complementary	Energy, Power &	Enrichment Themes
	Functions & Particular Integrals	Momentum in 2D Conical Pendulums	A Level Maths Workshop runs after school in M8 on a Wednesday and is a vital source of additional support for all students.
	Harmonic MotionEuler Formulae	 Vertical Circular Motion 	In Year 13, many Further Maths students will apply for University courses in Maths that require the taking of additional Maths Entrance Exams, such as MAT, TMUA
	<mark>*</mark>	 Centres of Mass 	and STEP. We provide dedicated revision sessions for
▲ A		 Moments & Couples 	prepare for both these exams and any Oxbridge interviews that may follow.

Where Next?

As stated above, If you are wishing to study Mathematics beyond A-Level, we offer support programmes for TMUA, MAT and STEP exams. Success in these exams can lead to reduced University offers.