

Maths @ WBS Year 11 Roadmap

Subject Aim: To bring together and utilise understanding of all areas of Mathematics studies at WBS. Develop complete familiarity and confidence with GCSE questions, with a focus on the problem solving elements. To achieve absolute potential of each and every student at GCSE Mathematics.

TTP Summer Term	FRACTIONS, EXPRESSIONS & INDICES	Curriculum and Assessment		
	<ul style="list-style-type: none"> Algebraic Laws of Indices Algebraic Fractions 	<p>Our Scheme of Learning is split into two parts: Foundation and Higher. A third strand called Intermediate consists of the more accessible parts of the higher tier. Your teachers will start with the more accessible parts of the Foundation content and stretch your group as far as they can in the time available. The more challenging parts of each tier are marked by a star in our Scheme of Learning.</p> <p>You will have regular assessments, covering several units, building up your experience with cumulative exams and well as encouraging your retrieval of previously studied topics.</p>		
Autumn Term	HANDLING DATA 2			
	<ul style="list-style-type: none"> Sampling Methods Representing Data (Scatter Graphs, Histograms) Averages from Frequency Tables 	Foundation	Intermediate	Higher
	QUADRATICS	<p>Aimed at building confidence with problem solving questions and developing security with the more challenging KS3 content.</p>		
	<ul style="list-style-type: none"> Quadratic Graphs Solving Quadratics Quadratic Algebraic Fractions 			
	PROBABILITY OF COMBINED EVENTS	<p>Taking all opportunities to stretch students by developing clarity of thought and risk-taking in their mathematical approaches.</p>		
	<ul style="list-style-type: none"> Venn Diagrams Tree Diagrams 			
	UNITS & PROPORTIONALITY	Homework and Revision		
	<ul style="list-style-type: none"> Compound Units Repeated Percentage Change Proportional Reasoning 			
Spring Term	FURTHER ALGEBRA	<p>Homework is set and completed on Dr Frost. You will have a feedback task in lesson based on how your class did before your next assessment. Our Scheme of Learning is on Dr Frost to help you revise. Prior knowledge checks, progress checks and test reviews will help you identify your strengths and work on the areas you find more challenging. Retrieval starters give you regular opportunities to recall topics previously learnt.</p>		
	<ul style="list-style-type: none"> Types of Graphs Further Graphs & Functions Exact Trig Values 			
	REVISION	Enrichment		
	<ul style="list-style-type: none"> Use of Past Papers Targeted Revision Exam Technique 			
Summer Term	EXAMS	<p>In Year 11, the Intermediate Maths Challenge provides an excellent enrichment opportunity. Attending Mondays after school will help students secure their understanding in the subject. Level 2 Further Mathematics is offered to those requiring to be stretched beyond the GCSE curriculum.</p>		
Where Next?				
<p>In Year 12 we offer both A Level Mathematics and AS/A Level Further Mathematics. Both build on the solid foundations of the subject established at GCSE. At Level the topics like of Vectors, Trigonometry, Functions and Sequences are explored at greater depth, while Further Mathematics introduces topics which have not been studied yet, such as Complex Numbers and Hyperbolic Functions</p>				