

Curriculum Overview

Subject area: Mathematics Year 11 Higher

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics	Higher: Investigating Properties of Shapes Calculating Solving Equations and Inequalities 1	Higher: Mathematical Movement I Algebraic Proficiency: tinkering Proportional Reasoning Pattern Sniffing Solving Equations and Inequalities 2	Higher: Algebraic Proficiency: visualising I Analysing Statistics Algebraic Proficiency: visualising II Mathematical Movement II	Higher: Revision of key concepts as identified from assessments	Higher: Revision of key concepts as identified from assessments	
Assessment	Mock Exams Half Higher Paper x 2 Sparx Homeworks Mini-Tests	Half Higher Paper x 2 Sparx Homeworks Mini-Tests	Mock Exams Half Higher Paper x 2 Sparx Homeworks Mini-Tests	Mock Exams Sparx Homeworks Mini-Tests	GCSE Exam 3 Papers	
Homework	Half Exam Papers Sparx Maths	Half Exam Papers Sparx Maths	Half Exam Papers Sparx Maths	Half Exam Papers Sparx Maths		

Literacy	Use of Tier 3 vocabulary in lessons				
,	Mini-tests focussing on knowledge and literacy				
	Exam technique eg. underlining key words				
	Key points for the year will include:				
	 Simplify surds, including rationalising the denominator of a surd expression 				
	Manipulate quadratic expressions by completing the square				
Building on prior	Deduce roots and turning points of quadratic functions				
learning	Understand the concept of an instantaneous rate of change				
	 Sketch translations and reflections of given functions 				
	 Solve quadratic inequalities in one variable 				
	Use the sine and cosine rules to solve problems				
Enrichment within	Taster Session for Core Maths and A-Level Maths				
the Curriculum	KS4 Maths clubs				
	Beat the teacher				
	Lunchtime support offered where students require extra help.				
Extracurricular	Breakfast, After school and holiday intervention and revision sessions.				
opportunities	Maths Challenges and House Competitions				
	Sparx Leader Board				
	In Maths lessons students are always encouraged to portray British Values. They are also encouraged				
Positive impacting	to delve deeper into their understanding of Mathematics and how it relates to the world around them.				
on personal	Problem solving skills and teamwork are fundamental to Mathematics, through creative thinking,				
development	discussion, explaining and presenting ideas. Students are always encouraged to develop their				
(SMSC)	Mathematical reasoning skills, communicating with others and explaining concepts to each other. Self				
	and peer reviewing are very important to enable students to have an accurate grasp of where they are				
	and how they need to improve.				
Preparing for the	Development of topics in the areas of Number, Ratio and Proportion, Algebra, Geometry and Statistics.				
next					
stage of education					



Ways to support your child's learning	Check student planner / Inspire for Maths homework and support them with this. Access to commercial websites, have many resources and videos for you to help support your child's learning and revision for assessments. Numeracy can be developed adding totals during a supermarket shop, working with percentages in shop sales etc. Useful Websites: Sparx Maths- <u>https://www.sparxmaths.uk/</u> Corbettmaths- <u>www.corbettmaths.com</u> Mymaths- <u>https://www.mymaths.co.uk/</u> BBC Bitesize- <u>https://www.mymaths.co.uk//</u> BBC Bitesize- <u>https://www.mathsgenie.co.uk/gcse.html</u> Mathsgenie- <u>https://mathsbot.com/</u> Maths Made Easy- <u>https://mathsmadeeasy.co.uk/</u> On Maths- <u>https://www.onmaths.com/</u> Exam Solutions- <u>https://www.examsolutions.net/gcse-maths/</u> Study Maths- <u>https://studymaths.co.uk/</u>		
Response to COVID	Revisit areas of weakness from Year 10 mocks Targetted starters to address gaps in knowledge Sparx homework based on gaps in knowledge Regular GCSE testing and ideintification of gaps		
Cross Curricular Links	Half termly cross curriucular homework in Sport, History, Astrology, Engineering and Art. Geography – Percentage of an amount, reading bars charts, the averages, coordinates, percentage change Science - Percentage of an amount, percentage change, reading bars charts, constructing bar charts, the averages, converting units, data collection tables, SDT, FPA, DMV, Standard Form, Pythagoras, Trignometry DT – Converting units, using rulers and protractors, finding missing angles, area and perimeter, Pythagoras, Trigonometry MFL – Etymology of words History – Pythagoras		

Assessment Tracking

Test	Date	Percentage