

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 Hegarty Homeworks Mini-Tests	Half Higher Paper x 2 Hegarty Homeworks Mini-Tests	Mock Exams Half Higher Paper x 2 Hegarty Homeworks Mini-Tests	Mock Exams Hegarty Homeworks Mini-Tests	GCSE Exam 3 Papers	
Homework	Hegarty Maths Worksheets Half Exam Papers	Hegarty Maths Worksheets Half Exam Papers	Hegarty Maths Worksheets Half Exam Papers	Hegarty Maths Worksheets Half Exam Papers		

Responding to	QLA from previous years learning to identify gaps in knowledge				
to post COVID	Regular GCSE testing to identify gaps in knowledge				
gaps in learning	Targetted starters to address gaps in knowledge				
	Hegarty homework based on gaps in knowledge				
	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 learning	 Deduce roots and turning points of quadratic functions 				
	 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	Lunchtime Maths Masterclass to support students aiming for grade 8/9 and prepare for A-Level Maths.				
within	Maths Challenges and House Competitions				
the Curriculum	Hegarty Leader Board				
Extracurricular	Lunchtime support offered where students require extra help.				
opportunities	After school intervention and revision sessions.				
	In Maths lessons students are always encouraged to delve deeper into their understanding of				
Positive impacting on	Mathematics and how it relates to the world around them.				
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 next	Development of topics in the areas of Number, Ratio and Proportion, Algebra, Geometry and Statistics.				
stage of					
education					



	Check student planner / SPACE 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:
	Hegarty Maths- https://hegartymaths.com/
Move to support your shild's loorning	Corbettmaths- www.corbettmaths.com
Ways to support your child's learning	Mymaths- https://www.mymaths.co.uk/
	BBC Bitesize- https://www.bbc.co.uk/bitesize/examspecs/z9p3mnb
	Mathsgenie- https://www.mathsgenie.co.uk/gcse.html
	Mathsbot- https://mathsbot.com/
	Maths Made Easy- https://mathsmadeeasy.co.uk/
	On Maths- https://www.onmaths.com/
	Exam Solutions- https://www.examsolutions.net/gcse-maths/
	Study Maths- https://studymaths.co.uk/

Assessment Tracking

Test	Date	Percentage