

Subject area: Mathematics Year 9

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics	Numbers and the Number System Calculating Visualising and Constructing	Algebra: Simplifying Exploring Fractions, Decimals and Percentages Proportional Reasoning	Sequences Solving Equations 1 Investigating Angles	Calculating Fractions, Decimals and Percentages Solving Equations 2	Calculating Space Algebra: Graphs Probability	Presentation of Data Measuring Data Revision of key concepts as identified from assessments
Assessment	Year 9 Test 1	Year 9 Test 2	Year 9 Test 3	Year 9 Test 4	Year 9 Test 5	End of Year Test
	Hegarty	Hegarty	Hegarty	Hegarty	Hegarty	(Calc & Non-Calc)
	Homeworks	Homeworks	Homeworks	Homeworks	Homeworks	Hegarty Homeworks
	Mini-Tests	Mini-Tests	Mini-Tests	Mini-Tests	Mini-Tests	Mini-Tests
H/W	Hegarty Maths	Hegarty Maths	Hegarty Maths	Hegarty Maths	Hegarty Maths	Hegarty Maths
	Worksheets	Worksheets	Worksheets	Worksheets	Worksheets	Worksheets

Response to	QLA from previous years learning to identify gaps in knowledge						
COVID	 Targetted starters and topics to address gaps in knowledge Hegarty homework based on gaps in knowledge 						
Building on	Foundation Core	Higher Core					
prior	• Apply the four operations with negative numbers	 Calculate with roots and integer indices 					
learning	 Convert numbers into standard form and vice 	 Manipulate algebraic expressions by expanding 					
	versa	the product of two binomials					
	• Apply the multiplication, division and power laws	Manipulate algebraic expressions by factorising a					
	of indices	 quadratic expression of the form x² + bx + c Understand and use the gradient of a straight line to solve problems Solve two linear simultaneous equations 					
	 Convert between terminating decimals and 						
	fractions						
	• Find a relevant multiplier when solving problems						
	involving proportion	algebraically and graphically					
	 Solve problems involving percentage change, 	 Plot and interpret graphs of quadratic functions 					
	including original value problems	 Change freely between compound units 					
	• Factorise an expression by taking out common	• Use ruler and compass methods to construct the					
	factors	perpendicular bisector of a line segment and to					
	Change the subject of a formula when two steps	bisect an angle					
	are required	Solve problems involving similar shapes					
	• Find and use the nth term for a linear sequence	• Calculate exactly with multiples of π					
	Solve linear equations with unknowns on both	Apply Pythagoras' theorem in two dimensions					
	sides	• Use geometrical reasoning to construct simple					
	Plot and interpret graphs of linear functions Apply the formulae for singumformers and eres of	proofs					
	• Apply the formulae for circumference and area of a circle	 Use tree diagrams to list outcomes 					
	Calculate theoretical probabilities for single events						
Enrichment	National Mathematics Challenge for students who show very good problem solving skills.						
within	Mathematics challenge for students who show very good problem solving skins.						
the Curriculum	Hegarty Leader Board						
Extracurricular	Lunchtime support offered where students require extra help.						
opportunities	culture support offered where students require extra help.						



Expectation: Achievement Success	
Positive impacting on personal development (SMSC)	In Maths lessons students are always encouraged to delve deeper into their understanding of Mathematics and how it relates to the world around them. Problem solving skills and teamwork are fundamental to Mathematics, through creative thinking, discussion, explaining and presenting ideas. Students are always encouraged to develop their 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,
stage of education	Geometry and Statistics
	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/
Ways to support your child's learn	ing Corbettmaths- www.corbettmaths.com
	mymaths- <u>nttps://www.mymaths.co.uk/</u>
	DDC Ditester between / / www. blacker with / bitester / oversee and / - On 2 mark

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