

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 Hegarty Homeworks Mini-Tests	Year 9 Test 2 Hegarty Homeworks Mini-Tests	Year 9 Test 3 Hegarty Homeworks Mini-Tests	Year 9 Test 4 Hegarty Homeworks Mini-Tests	Year 9 Test 5 Hegarty Homeworks Mini-Tests	End of Year Test (Calc & Non-Calc) Hegarty Homeworks Mini-Tests
H/W	Hegarty Maths Worksheets	Hegarty Maths Worksheets	Hegarty Maths Worksheets	Hegarty Maths Worksheets	Hegarty Maths Worksheets	Hegarty Maths Worksheets

Response to COVID	QLA from previous years learning to identify gaps in knowledge Targetted starters and topics to address gaps in knowledge Hegarty homework based on gaps in knowledge	
Building on prior learning	Foundation Core <ul style="list-style-type: none"> • Apply the four operations with negative numbers • Convert numbers into standard form and vice versa • Apply the multiplication, division and power laws of indices • Convert between terminating decimals and fractions • Find a relevant multiplier when solving problems involving proportion • Solve problems involving percentage change, including original value problems • Factorise an expression by taking out common factors • Change the subject of a formula when two steps are required • Find and use the nth term for a linear sequence • Solve linear equations with unknowns on both sides • Plot and interpret graphs of linear functions • Apply the formulae for circumference and area of a circle • Calculate theoretical probabilities for single events 	Higher Core <ul style="list-style-type: none"> • Calculate with roots and integer indices • Manipulate algebraic expressions by expanding the product of two binomials • Manipulate algebraic expressions by factorising a quadratic expression of the form $x^2 + bx + c$ • Understand and use the gradient of a straight line to solve problems • Solve two linear simultaneous equations algebraically and graphically • Plot and interpret graphs of quadratic functions • Change freely between compound units • Use ruler and compass methods to construct the perpendicular bisector of a line segment and to bisect an angle • Solve problems involving similar shapes • Calculate exactly with multiples of π • Apply Pythagoras' theorem in two dimensions • Use geometrical reasoning to construct simple proofs • Use tree diagrams to list outcomes
Enrichment within the Curriculum	National Mathematics Challenge for students who show very good problem solving skills. Maths Challenges and House Competitions Hegarty Leader Board	
Extracurricular opportunities	Lunchtime support offered where students require extra help.	

