

**Subject area: Mathematics Year 10 Foundation**

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics	Calculating Space 1  Calculating Solving Equations 1	Mathematical Movement 1  Algebra: Quadratics  Proportional Reasoning	Pattern Sniffing  Solving Inequalities  Calculating Space 2	Conjecturing  Algebra: Graphs  Calculating: Fractions, Decimals and Percentages	Solving Equations 2  Probability  Presentation of Data	Mathematical Movement 2  Visualising and construction  Revision of key concepts as identified from assessments
Assessment	Year 10 Test 1 Hegarty Homeworks Mini-Tests	Year 10 Test 2 Hegarty Homeworks Mini-Tests	Year 10 Test 3 Hegarty Homeworks Mini-Tests	Year 10 Test 4 Hegarty Homeworks Mini-Tests	Year 10 Test 5 Hegarty Homeworks Mini-Tests	Mock Exams (Calc & Non-Calc) Hegarty Homeworks Mini-Tests
H/W	Hegarty Maths Worksheets Half Exam Papers	Hegarty Maths Worksheets Half Exam Papers	Hegarty Maths Worksheets Half Exam Papers	Hegarty Maths Worksheets Half Exam Papers	Hegarty Maths Worksheets Half Exam Papers	Hegarty Maths Worksheets Half Exam Papers

<b>Response to COVID</b>	QLA from previous years learning to identify gaps in knowledge Regular GCSE testing to identify gaps in knowledge Targetted starters to address gaps in knowledge Hegarty homework based on gaps in knowledge
<b>Building on prior learning</b>	<ul style="list-style-type: none"> <li>• Calculate with roots and integer indices</li> <li>• Manipulate algebraic expressions by expanding the product of two binomials</li> <li>• Manipulate algebraic expressions by factorising a quadratic expression of the form <math>x^2 + bx + c</math></li> <li>• Understand and use the gradient of a straight line to solve problems</li> <li>• Solve two linear simultaneous equations algebraically and graphically</li> <li>• Plot and interpret graphs of quadratic functions</li> <li>• Change freely between compound units</li> <li>• Use ruler and compass methods to construct the perpendicular bisector of a line segment and to bisect an angle</li> <li>• Solve problems involving similar shapes</li> <li>• Calculate exactly with multiples of <math>\pi</math></li> <li>• Apply Pythagoras' theorem in two dimensions</li> <li>• Use geometrical reasoning to construct simple proofs</li> <li>• Use tree diagrams to list outcomes</li> </ul>
<b>Enrichment within the Curriculum</b>	National Mathematics Challenge for students who show very good problem solving skills. Maths Challenges and House Competitions Hegarty Leader Board
<b>Extracurricular opportunities</b>	Lunchtime support offered where students require extra help.
<b>Positive impacting on personal development (SMSC)</b>	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.
<b>Preparing for the next stage of education</b>	Development of topics in the areas of Number, Ratio and Proportion, Algebra, Geometry and Statistics

