

Intent

Our Maths curriculum follows the Mathematics Mastery programme. The curriculum is designed with three principles in mind, with the aim to teach students the conceptual knowledge needed to solve mathematical problems successfully and with sufficient fluency to apply this knowledge to new and unfamiliar problems. Firstly, we focus on developing students' conceptual understanding of mathematical knowledge, rather than just computation skills. This means that, rather just practice procedures for solving problems, we want our students to have a clear, conceptual grasp of the underlying ideas or principles that shape mathematical language and vocabulary to strengthen and support students' mathematical reasoning and communication. Across our curriculum, students are expected to master the correct terminology, use appropriate signs and symbols, and demonstrate verbal reasoning by contributing to class discussion. Thirdly, our curriculum cultivates our students' capability to think mathematically; which is to say, to develop mathematical 'habits of mind' such as being systematic and seeking out patterns. Importantly, we believe that every one of our students has an entitlement to learn the whole curriculum: we support all students to access all of the key concepts, whilst allowing for differentiation through different levels of depth or mastery of learning. Students have access to the Hegarty Maths website to help imbed their understanding through practice and encourages independent learning.

	Autumn Term I	Autumn Term II	Spring Term I	Spring Term II	Summer Term I	Summer Term II
Year 7	Content Number systems Factors and multiples Axioms and Arrays Arithmetic skills 	Content Order of operations Positive and negative numbers Angles Classifying 2-D shapes 	Content Algebra introduction Coordinates 	Content Prime factorisation Conceptualising fractions 	Content Calculating with fractions and decimals Ratio Percentages 	Content Transformations Constructions
Year 8	Content • Sequences • Equations • Inequalities	Content Linear graphs Accuracy and estimation 	Content Ratio Real life graphs Rates of change Proportion 	Content Univariate and Bivariate data 	Content Angles in parallel lines Angles in polygons Bearings 	Content Circles and composite shapes Volume and surface area of prisms

Implementation



Yea r 9	Content Sequences Equations Inequalities 	Content Linear graphs Accuracy and estimation 	Content Ratio Real life graphs Rates of change Proportion 	Content Univariate and Bivariate data 	Content Angles in parallel lines Angles in polygons Bearings 	Content Probability Set notation Venn diagrams Sample spaces diagram
Yea r 10	Content Number calculations Algebraic expressions Graphs, tables and charts 	Content Fractions and Percentages Equations, inequalities and sequences 	Content Angles Averages and range Perimeter, Area and Volume 	Content Straight line graphs Transformations 	Content Ratio and Proportion Right-angled Triangles 	Content Probability Multiplicative reasoning Constructions, Loci and Bearings
Yea r 11	Content Quadratic equations and Graphs Perimeter, Area and Volume of complex shapes 	Content Fractions, indices and standard form Congruence, similarity and vectors 	Content Circle theorems Trigonometry 	Content Recap and revision 		