



**Intent Statement:** ... *“Our vision for Maths at Tottingham High School is for all students to develop a deep understanding of mathematical concepts, by promoting reasoning and problem solving ability and produce independent and resilient young maths students who appreciate and understand the world of maths around them. The language of mathematics influences our lives and is vital to the future prosperity of young people. Our maths curriculum enables students to recognise the power of number, algebra, geometry and data analysis and helps to develop confidence for all abilities, enabling attainment at all levels in the subject. All students are encouraged to understand how mathematics can be used to problem solve. While providing students with a solid understanding of mathematical concepts, we aim to communicate how mathematics is essential to everyday life, critical in science, technology and engineering, and necessary for financial literacy and most forms of employment. The maths team at Tottingham High school will continually strive for development of excellent teaching and learning in mathematics to ensure students enjoy and succeed at mathematics”*

	<b>Mathematics</b>					
	<b>Term 1</b>		<b>Term 2</b>		<b>Term 3</b>	
<b>Year 7</b>	Sequencing Understanding and use of algebra Equality and equivalence	Place value, ordering integers and decimals Fraction, decimal and percentage equivalence	Solving problems with addition and subtraction Solving problems with multiplication and division	Fractions and percentages of an amount. Four operations with directed number. Addition and subtraction of fractions	Lines and angles; Construction, measuring and using geometric notation. Developing geometric reasoning.	Developing number sense. Sets and probability. Prime numbers and proof
<b>Year 8</b>	Ratio and scale. Multiplicative change, Multiplying and dividing fractions	Working in the Cartesian plane. Representing data. Tables and probability	Brackets , Equations and inequalities. Sequences and indices,	Fractions and percentages. Standard index form Number sense	Angles in parallel lines and polygons. Area of trapezia and circles. Line symmetry and reflection	Data handling cycle. Measures of location.
<b>Year 9</b>	Straight line graphs Forming and solving equations. Testing conjectures	Three dimensional shapes. Constructions and congruency	Number. Using percentages. Maths and money	Deduction. Rotation and translation. Pythagoras Theorem	Enlargement and similarity. Solving ratio and proportion problems. Rates.	Probability. Algebraic representation. Revision
<b>Year 10</b>	Congruency, similarity and enlargement.	Representing solutions of	Angles and bearings. Working with circles. Vectors	Ratios and fractions. Percentages and interest.	Collecting, representing and interpreting data.	Types of number and sequences. Indices and roots

	Trigonometry	equations and inequalities. Simultaneous equations		Probability	Non calculator methods	
<b>Year 11 (Higher)</b>	Number. Algebra, Interpreting and representing data. Fractions, ratios and percentages	Graphs, area and volume. Transformations and constructions. Equations and inequalities. Probability	Multiplicative reasoning. Similarity and congruency. Further trigonometry. Further statistics. Equations and graphs.	Circle theorem. Surds, proof, algebraic fractions, and functions. Vectors and geometric proof. Proportion and graphs. Transformations of graphs	Revision	Examinations
<b>Year 11 (Foundation)</b>	Number, Operations and Integers. Fractions, Decimals and Percentages. Ratio, Proportion and Rates of Change. Indices and Surds	Probability. Statistics.	Approximation and Estimation. Ratio proportion and rates of change. Algebra.	Graphs of equations and functions. Basic geometry. Congruency and similarity Mensuration.	Revision	Examinations