



## Verulam School: Key Stage 3 CURRICULUM INFORMATION

**Department: Mathematics**  
**Subject Leader: Mr P Hardy**

**Subject Vision:** Verulam Maths aims to inspire pupils and develop their appreciation for the power and elegance of mathematical thinking. Our purpose is to equip students with a deep understanding of mathematical concepts and the ability to apply them to solve complex real-world problems. Across all key stages, we want our students to develop a robust foundation in core skills and knowledge, cultivate problem-solving and critical thinking capabilities, and recognise the interconnectedness of mathematical ideas and their applications. Fostering a growth mindset and mathematical confidence and appreciating the historical and cultural contributions of mathematics is vital to the Verulam Mathematical experience. It is vitally important that students become effective communicators and are able to explain concepts and solutions clearly. By the end of their Verulam Maths journey, our students will be well-prepared to continue their mathematical studies at higher levels or apply their quantitative skills in a wide range of professional and personal contexts.

YEAR 7						
Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic/Unit Title	<b>Algebraic thinking</b> Sequences Algebraic notation  Equality and equivalence  Fortnightly Finance	<b>Place value and proportion</b>  Place value, ordering and decimals  FDP  Fortnightly Finance	<b>Applications of number</b>  Addition and subtraction problems Multiplication and division problems  FDP of amounts  Fortnightly Finance	<b>Directed and fractional number</b>  4 operations with Directed number Addition and subtraction of fractions	<b>Lines and angles</b>  Geometric notation  Geometric reasoning	<b>Reasoning with number</b>  Using numbers to solve problems Sets and probability  Prime numbers and proof

Assessment	Chapter tests as per topics above	Chapter tests as per topics above Summative assessment (Term 1 topics)	Chapter tests as per topics above	Chapter tests as per topics above Summative assessment (Term 1 & 2 topics)	Chapter tests as per topics above	Chapter tests as per topics above Summative assessment (Term 1, 2 & 3 topics)
<b>YEAR 8</b>						
<b>Term</b>	<b>Autumn 1</b>	<b>Autumn 2</b>	<b>Spring 1</b>	<b>Spring 2</b>	<b>Summer 1</b>	<b>Summer 2</b>
Topic/Unit Title	<b>Proportional Reasoning</b> Ratio and scale Multiplicative change Multiplying and dividing fractions	<b>Reasoning with number</b> Working on the Cartesian plane Representing data Tables and probability	<b>Algebraic Techniques</b> Brackets, Equations and inequalities Sequences Indices	<b>Reasoning with Number</b> Fractions and percentages Standard index form Number sense	<b>Developing Geometry</b> Angles in parallel lines and polygons Areas of trapezia and circles Symmetry	<b>Reasoning with Data</b> The data handling cycle Measures of location
Assessment	Chapter tests as per topics above	Chapter tests as per topics above Summative assessment (Term 1 topics)	Chapter tests as per topics above	Chapter tests as per topics above Summative assessment (Term 1 & 2 topics)	Chapter tests as per topics above	Chapter tests as per topics above Summative assessment (Term 1, 2 & 3 topics)
<b>YEAR 9</b>						
<b>Term</b>	<b>Autumn 1</b>	<b>Autumn 2</b>	<b>Spring 1</b>	<b>Spring 2</b>	<b>Summer 1</b>	<b>Summer 2</b>
Topic/Unit Title	<b>Reasoning with Algebra</b> Using percentages Maths & Money Forming and solving equations	<b>Constructing in 2 and 3 dimensions</b> Straight lines graphs Testing conjectures 3D Shapes	<b>Reasoning with number</b> Constructions and congruence Standard form HCF/LCM	<b>Reasoning with Geometry</b> Deduction Rotation and translation Pythagoras' Theorem	<b>Reasoning with proportion</b> Enlargement and similarity Solving ratio and proportion problems Ratesc	<b>Representations &amp; Revision</b> Probability Quadratic graphs Prep for KS4

Assessment	Chapter tests as per topics above	Chapter tests as per topics above Summative assessment (Term 1 topics)	Chapter tests as per topics above	Chapter tests as per topics above Summative assessment (Term 1 & 2 topics)	Chapter tests as per topics above	Chapter tests as per topics above Summative assessment (Term 1, 2 & 3 topics)