Mathematics Curriculum

Building on Key stage 2

Addition and subtraction: including performing mental maths calculations using numbers of up to 4 digits.

Multiplication and division: including learning formal methods for multiplication, short division and long division.

Number and place value: including counting, rounding up and solving practical number problems.

Fractions: including comparing and ordering fractions and conducting calculations using common factors.

Geometry: including studying the properties of 2D/ 3D shapes and calculating angles.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
7	**Number 1** Place value Arithmetic	**Number 2** Factors & Multiples	**Number 3** Prime Factors BIDMAS	**Number 4** Positive and Negative numbers	**Algebra 1** Expressions, Equations & inequalities	**Geometry 1** Coordinates	**Geometry 2** Angles	**Geometry 3** 2D Shapes – identifying & constructing	**Number 5** Understand and comparing Fractions	**Number 6** Calculating with fractions	**Number 7** Ratio	**Geometry 4** Transforming 2 2-D Shapes
8	**Algebra 1** Sequences	**Algebra 2** Forming and solving equations	**Algebra 3** Linear graphs	**Number 1** Estimation	**Number 2** Ratio Real life graphs	**Number 3** Proportion	**Statistics 1** Collecting, representing and comparing data	**Statistics 2** Bivariate (2 sets) data comparisons	**Geometry 1** Angles in polygons	**Geometry 1** Bearings	**Geometry 1** Circles	**Geometry 1** Volume and surface area
9	**Number 1** Fractions Decimals Percentage	**Statistics 1** Probability Sets Statistical diagrams	**Algebra 1** Solving algebraically	**Algebra 2** Solving Graphically	**Geometry 1** Angles Constructions	**Algebra 3** Pythagoras	**Number 2** Ratio	**Geometry 2** Similarity & enlargement Trigonometry	**Algebra 4** Algebra review	**Algebra 5** Quadratic expressions & equations	**Number 3** Surds Indices	**Number 4** Standard form Growth & decay
10	**Algebra 1** Linear graphs	**Geometry 1** Transformations	**Number 1** Ratio & Proportion	**Geometry 2** Right angled Triangles	**Geometry 3** Trigonometry	**Statistics 1** Probability	**Number 2** Multiplicative reasoning	**Geometry 4** Constructions & loci	**Geometry 5** Bearings	**Algebra 2** Quadratic equations &	**Geometry 6** Perimeter & Area	**Geometry 7** Volume
	Algebra 1 Equations & inequalities	**Statistics 1** Probability	**Number 1** Multiplicative reasoning	**Geometry 1** Similarity & congruence	**Geometry 2** Trigonometry	**Statistics 2** Sampling Cumulative	**Statistics 3** Box plots Histograms	**Algebra 2** Equations and graphs	**Geometry 3** Circle Theorems	**Geometry 4** Circle Theorems	**Algebra 3** Rearranging formula	**Algebra 4** Algebraic fractions
11	**Geometry 1** Constructions & Loci	**Algebra 1** Quadratic equations	**Geometry 2** Perimeter, area & volume	**Number 1** Fractions indices	**Number 2** Standard form	**Geometry 3** Similarity & enlargement	**Algebra 2** Graphs Pythagoras	**Algebra 3** Simultaneous equations	**GCSE Exams**			
	Number 1 Surds Indices	**Algebra 1** Quadratics inc graphs	**Shape 1** Similar shapes Transformations	**Algebra 2** Rearranging formula	**Number 2** Multiplicative reasoning	**Algebra 3** Algebraic fractions	**Shape 2** Sine/cosine rule	**Algebra 4** Simultaneous equations	**GCSE Exams**			