

Maths Key Stage 3 Programme of Study

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 7	Introductory project: Spirals	Number 2	Geometry & Measure 2	Algebra 3	Algebra 4	Number 5
	Students will engage in a investigative and enjoyable project into maths in the world around them. This will include looking at spirals and sequences in the natural world.	Students will learn about Fractions, decimals, percentages, adding and subtracting fractions and proportion and equivalence.	Students will look at coordinates and geometrical reasoning: lines, angles and shapes.	Students will learn about square numbers and roots, triangle numbers, from mappings to graphs and how to name linear graphs	Equations and formulae continued! Students will be expected to solve “brick wall” problems, solve square-and-circle and triangle-and-circle problems.	Students will learn about calculator methods, fractions of quantities, adding and subtracting decimals and percentages of quantities.
Year 8	Algebra 1	Statistics 1	Statistics 2	Geometry & Measure 3	Geometry & Measure 4	Algebra 5
	Sequences & functions. Students will look at sequences and rules, missing terms, functions and mappings, using letters in equations and the n th term.	Statistics – Mode, median, and range, The mean, Statistical diagrams (bar chart, line graph and pie charts) and probability.	Students will look at further statistics that build on the first statistics unit. Including: tally charts, using the correct data for an enquiry, grouped frequency and data collection.	Students will delve deeper into geometrical reasoning: lines, measuring and drawing angles and constructing shapes.	Students begin to look at the concept of symmetry. This leads to learning about 3 transformations; reflections, rotations and translations.	Students will be solving equations, using and writing formulae, carrying out doty investigations into perimeter and area, and constructing graphs that satisfy linear rules and accurately represent real life situations.
Year 9	Number 1	Algebra 2	Number & Measures 3	Number 4	Statistics 3	Geometry & Measure 5
	Students will learn about decimal notations and place values, directed numbers, integers and calculations, including estimations and approximations.	This topic will involve students using algebraic terms and expressions, learning the rules of algebra, equations, how they can be simplified and formulae.	Students will look further into number and measures, including place value, calculations, calculator methods, rounding, the four operations and BODMAS	Students will look further into number. They will learn about, percentages, ratio and proportion, calculating ratios and proportions and using this in a problem solving context.	More statistics – including a deeper look at pie charts, comparing data, surveys and probabilities from two way tables.	Students will be introduced to the properties of irregular and regular polygons. Students will then carry out practical work using tessellations before finally making their own 3-D shapes.