

# Maths Route Planner

The maths core scheme of work for the college is shown below. Adjustments may be made to this to cater for the needs of individual students.

<b>Year 7</b>	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
<b>Autumn Term</b>	Algebraic thinking <b>Sequences</b>		Algebraic thinking <b>Understanding and using algebraic notation</b>		Algebraic thinking <b>Equality and equivalence</b>		Place value and proportion <b>Place value and ordering integers and decimals</b>			Place value and proportion <b>Fraction. Decimal and percentage equivalence</b>		
<b>Spring Term</b>	Applications of number <b>Solving problems with addition and subtraction</b>		Applications of number <b>Solving problems with multiplication and division</b>			<b>Fractions and percentages of amounts</b>	Directed number <b>Operations and equations with directed number</b>			Fractional thinking <b>Addition and subtraction of numbers</b>		
<b>Summer Term</b>	Lines and angles <b>Constructing, measuring and using geometric notation</b>			Lines and angles <b>Developing geometric reasoning</b>			Reasoning with number <b>Developing number sense</b>		Reasoning with number <b>Sets and probability</b>		Reasoning with number <b>Prime numbers and proof</b>	

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<b>Year 8</b>	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn Term	Proportional reasoning <b>Ratio and scale</b>		Proportional reasoning <b>Multiplicative change</b>		Proportional reasoning <b>Multiplying and dividing fractions</b>		Representations <b>Working in the Cartesian Plane</b>			Representations <b>Representing data</b>		Representations <b>Tables and Probability</b>
Spring Term	Algebraic techniques <b>Brackets, equations and inequalities</b>				Algebraic techniques <b>Sequences</b>	Algebraic techniques <b>Indices</b>	Developing number <b>Fractions and Percentages</b>			Developing number <b>Standard Index form</b>		Developing number <b>Number Sense</b>
Summer Term	Developing geometry <b>Angles in parallel lines and polygons</b>			Developing geometry <b>Area of trapezia and circles</b>		Developing geometry <b>Line symmetry and reflection</b>	Reasoning with data <b>The data handling cycle</b>				Reasoning with data <b>Measures of location</b>	

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Year 9	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn Term	Reasoning with Algebra <b>Straight line graphs</b>		Reasoning with Algebra <b>Forming and solving equations</b>		Reasoning with Algebra <b>Testing with conjectures</b>		Constructing in 2 and 3 dimensions <b>Three dimensional shapes</b>			Constructing in 2 and 3 dimensions <b>Constructions and Congruency</b>		
Spring Term	Reasoning with number <b>Numbers</b>		Reasoning with number <b>Using percentages</b>		Reasoning with number <b>Maths and money</b>		Reasoning with geometry <b>Deduction</b>		Reasoning with geometry <b>Rotation and translation</b>		Reasoning with geometry <b>Pythagoras' theorem</b>	
Summer Term	Reasoning with proportion <b>Enlargement and similarity</b>		Reasoning with proportion <b>Solving ratio and proportion problems</b>		Reasoning with proportion <b>Rates</b>		Representations and revision <b>Probability</b>		<b>Algebraic representation</b>	<b>Revision</b>		

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Year 10	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
<b>Autumn Term</b>	Similarity <b>Congruence, similarity and enlargement</b>			Similarity <b>Trigonometry</b>			Developing Algebra <b>Representing solutions of equations inequalities</b>			Developing Algebra <b>Simultaneous equations</b>		
<b>Spring Term</b>	Geometry <b>Angles and bearings</b>		Geometry <b>Working with circles</b>		Geometry <b>Vectors</b>		Proportions and proportional change <b>Ratios and fractions</b>		Proportions and proportional change <b>Percentages and interest</b>		Proportions and proportional change <b>Probability</b>	
<b>Summer Term</b>	Delving into data <b>Collecting, representing and interpreting data</b>				Using number <b>Non-calculator methods</b>		Using number <b>Types of numbers and sequences</b>		Using number <b>Indices and roots</b>		Expressions <b>Manipulating expressions</b>	

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<b>Year 11</b>	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
<b>Autumn Term</b>	<b>Graphs Gradients and lines</b>		<b>Graphs Non-linear graphs</b>		<b>Graphs Using graphs</b>		<b>Algebra Expanding and factorising</b>		<b>Algebra Changing the subject</b>		<b>Algebra Functions</b>	
<b>Spring Term</b>	<b>Reasoning Multiplicative reasoning</b>		<b>Reasoning Geometric reasoning</b>		<b>Reasoning Algebraic reasoning</b>		<b>Revision and communication Transforming and Constructing</b>		<b>Revision and communication Listing and describing</b>		<b>Revision and communication Show that...</b>	
<b>Summer Term</b>	<b>Revision and examinations</b>											