

Year 7 Curriculum Map

Maths

	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Unit of Learning	Algebraic Thinking	Place Value & Proportion	Applications of Number	Directed Number Fractional Thinking	Lines & Angles	Reasoning with number
Unit Focus	Sequences. Understand & use algebraic notation Equality & Equivalence.	Place value & ordering integers & decimals. Fraction, decimal & percentage equivalence.	Solving problems with addition & subtraction. Solving problems with multiplication & division. Fractions & percentages of amounts.	Operations & equations with directed number. Additions & subtraction of fractions.	Constructing, measuring & using geometric notation. Developing geometric reasoning.	Developing number sense. Sets & probability. Prime numbers & proof.
Key Knowledge	Describing and continuing sequences. Different types of sequences. Term-to-term rules.	Rounding to decimals places and significant figures. Using the inequality signs. Calculating averages.	Perimeter. Financial maths. Tables and timetables. Bar and line charts.	Order negatives. Four operations with negatives. Solve two-step equations. BIDMAS.	Angle facts & rules. Properties of polygons. Constructing triangles and polygons.	Use mental methods strategies using the four operations. Estimation.

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	<p>Function machines.</p> <p>Substitution.</p> <p>Solve one step equations.</p> <p>Like and unlike terms.</p>	<p>Powers of 10 ($\times 10^n$).</p> <p>Convert between fractions, decimals and percentages.</p> <p>Know different fractions as division.</p> <p>Explore fractions above one.</p>	<p>Standard form.</p> <p>Factors and multiples.</p> <p>Multiply integers and decimals using the grid method.</p> <p>Short division.</p> <p>Area of quadrilaterals and triangles.</p> <p>Calculating the mean.</p> <p>Fractions of a given amount.</p> <p>Calculating percentages on calculators.</p>	<p>Convert between mixed numbers and improper fractions.</p> <p>Add & subtract fractions (including mixed numbers).</p> <p>Equivalent fractions.</p> <p>Add & subtract algebraic fractions.</p>	<p>Interpreting and constructing pie charts.</p> <p>Angles around a point, on a straight line and in a quadrilateral.</p> <p>Solve complex angle problems.</p> <p>Angles in parallel lines.</p>	<p>Use number facts to derive other facts.</p> <p>Venn diagrams.</p> <p>Probability vocabulary.</p> <p>Calculate probability of simple events.</p> <p>Know that the sum of all probabilities is 1.</p> <p>Prime numbers.</p> <p>Common factors and multiples.</p> <p>Product of primes</p>
SMSC	<p>Pattern and order</p> <p>The wonder of numbers, formulae and equations</p>	<p>Infinity and nothing</p>	<p>The universality of mathematics over time and space</p>	<p>The wonder of numbers, formulae and equations</p>	<p>Shape and regularity</p>	<p>Truth, certainty and likelihood</p>
Experiences/CEIAG		<p>Fibonacci Sequence Day</p>		<p>Pi Day</p>	<p>JMC</p>	

