

Maths - KS3

Overview

At Impact, we strive to ensure that students are provided with access to important mathematical ideas to develop knowledge and skills that will draw on their future lives. This curriculum builds on students' prior learning and focuses on developing understanding within maths. This enables the students to respond to both familiar and unfamiliar situations by using mathematics to make informed decisions and solve problems efficiently.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	Sequence. Algebraic notation. Equality and equivalence.	Place value. Fraction, decimal and percentage equivalence.	Solving problems with addition and subtraction. Solving problems with multiplication and division. Fractions and percentage of amounts.	Directed numbers. Addition and subtraction of fractions.	Constructing and measuring. Geometric reasoning.	Developing number sense. Sets and probability. Prime numbers and proof.
Year 8	Ratio and scale. Multiplicative change. Multiplying and dividing fractions.	Working in the cartesian plane. Representing data. Tables and probability.	Brackets, equations and inequalities. Sequences. Indices.	Fractions and percentages. Standard index form.	Number sense. Angles in parallel lines and polygons. Area of trapezia and circles.	Line symmetry and reflection. The data handling cycle. Measure of location.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 9	<p>Basic numbers.</p> <p>Factors and multiples.</p> <p>Basic algebra.</p> <p>Basic fractions.</p> <p>Basic decimals.</p>	<p>Rounding.</p> <p>Sequence.</p> <p>Coordinates and linear graphs.</p>	<p>Angles.</p> <p>Scale diagrams and bearings.</p> <p>Collecting and representing data.</p> <p>Scatter graphs.</p>	<p>Basic percentage.</p> <p>Perimeter and area.</p> <p>Circumference and area.</p>	<p>Ratio and proportion.</p> <p>Basic probability.</p> <p>Equations.</p>	<p>Constructions and loci.</p> <p>Pythagoras' Theorem and introduction to trigonometry.</p> <p>Standard form.</p> <p>2D representation of 3D shapes.</p>