

Programme of Study - Maths

We want to develop students who are engaged and curious about mathematics, and confident in **problem solving** because they are **proficient** at **reasoning**, and **fluent** with key maths concepts. Our teachers will be engaged and curious about students' learning. Students know where logical thinking can take them in life.

Year 8



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Rationale/narrative	Our Year 8 curriculum is designed to build on the foundations created in Year 7, where students will spend more time working with algebra, and making links across topics.					
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	Prime numbers, factorisation and calculating with fractions	Algebra	2D geometry	Proportional Reasoning	Statistics	3D geometry
Content	<p>BLQ: What's so special about prime numbers?</p> <p>Knowledge and skills covered:</p> <p>Unit 1 – prime numbers and factorisation Unit 2/3 – calculating with fractions</p>	<p>BLQ: How do you solve an equation?</p> <p>Knowledge and skills covered:</p> <p>Unit 4 – positive and negative numbers Unit 5 – sequences, expressions and equations</p>	<p>BLQ: How can you draw a perfect triangle?</p> <p>Knowledge and skills covered:</p> <p>Unit 6/7 – triangles and quadrilaterals Unit 8 – find missing angles Unit 9 – area of parallelograms and trapezia</p>	<p>BLQ: What has maths got to do with my life?</p> <p>Knowledge and skills covered:</p> <p>Unit 10 – percentage change Unit 11 – ratio and rate</p>	<p>BLQ: How does a journalist use maths?</p> <p>Knowledge and skills covered:</p> <p>Unit 12 – collect and organise data Unit 13 – present data Unit 14 – interpret and compare statistical representations</p>	<p>BLQ: How does an architect use maths?</p> <p>Knowledge and skills covered:</p> <p>Unit 15 – rounding, significant figures and estimation Unit 16 - circumference and area of a circle Unit 17 – 3D shapes and their nets Unit 18 – surface area and volume of</p>

