



# Blue Coat Church of England Academy

**Year: 9**

**Subject: Mathematics**

## Overview

At Blue Coat Academy, the Mathematics department aims to promote a love of learning for the subject with applications to real-life to allow pupils to see its importance. Enrichment activities are used over the course of the year to reinforce this alongside a key focus on reasoning and problem-solving.

Pupils are set according to KS2 and Year 8 data. The content for Year 9 builds on work covered in Year 7 and Year 8, going into greater detail to deepen pupil understanding of key areas. Pupils are assessed three times over the academic year on content covered in lessons to check their understanding and to embed exam style questions. At the end of the year, pupils complete an additional non-calculator GCSE paper to prepare them for KS4. All pupils have access to the MathsWatch VLE site to assist with independent learning, homework and revision.

## Units Covered

9s/Ma1 and 9t/Ma1	9s/Ma2 and 9t/Ma2	9s/Ma3 and 9t/Ma3
Calculating	Calculating	Counting and comparing
Visualising and constructing	Numbers and the number system	Numbers and the number system
Cross-curricular skills	Cross-curricular skills	Cross-curricular skills
Algebraic proficiency: tinkering	Visualising and constructing	Calculating
Pattern sniffing	Algebraic proficiency: tinkering	Visualising and constructing
Solving equations and inequalities 1	Exploring fractions, decimals and percentages	Checking, approximating and estimating
Problem solving	Proportional reasoning	Investigating properties of shapes
Calculating space	Calculating fractions, decimals and percentages	Exploring fractions, decimals and percentages
Algebraic proficiency: visualising	Problem solving	Proportional reasoning
Solving equations and inequalities 2	Investigating angles	Problem solving
Understanding risk	Understanding risk 1	Calculating fractions, decimals and percentages
Presentation of data	Solving equations and inequalities	Algebraic proficiency: tinkering
Proportional reasoning	Pattern sniffing	Measuring space
Conjecturing	Calculating space	Investigating angles
	Algebraic proficiency: visualizing	Solving equations and inequalities
	Understanding risk 2	Pattern sniffing
	Presentation of data	Calculating space
	Measuring data	Mathematical movement
		Presentation of data
		Measuring data