Blue Coat
Church of England Academy

Year: 8	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 7 data. The content for Year 8 builds on work covered in Year 7, 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. All pupils have access to the MathsWatch VLE site to assist with independent learning, homework and revision.

Units Covered

8s/Ma1 and 8t/Ma1	8s/Ma2 and 8t/Ma2	8s/Ma3 and 8t/Ma3
Calculating	Counting and comparing	Calculating
Numbers and the number system	Numbers and the number system	Numbers and the number system
Cross-curricular skills	Cross-curricular skills	Cross-curricular skills
Visualising and constructing	Calculating	Calculating: division
Algebraic proficiency: tinkering	Visualising and constructing	Visualising and constructing
Exploring fractions, decimals and percentages	Checking, approximating and estimating	Checking, approximating and estimating
Proportional reasoning	Investigating properties of shapes	Investigating properties of shapes
Calculating fractions, decimals and percentages	Exploring fractions, decimals and percentages	Exploring fractions, decimals and percentages
Problem solving	Proportional reasoning	Proportional reasoning
Investigating angles	Problem solving	Problem solving
Understanding risk 1	Calculating fractions, decimals and percentages	Calculating fractions, decimals and percentages
Solving equations and inequalities	Algebraic proficiency: tinkering	Algebraic proficiency: using formulae
Pattern sniffing	Measuring space	Measuring space
Calculating space	Investigating angles	Investigating angles
Algebraic proficiency: visualizing	Solving equations and inequalities	Solving equations and inequalities
Understanding risk 2	Pattern sniffing	Pattern sniffing
Presentation of data	Calculating space	Calculating space
Measuring data	Mathematical movement	Mathematical movement
	Presentation of data	Presentation of data
	Measuring data	Measuring data