Stuart Bathurst Catholic High School



Mathematics Department

Long-term sequencing Year 7 Stage 3

The curriculum has been designed to ensure that students develop the skills required to be successful in reaching their goals. We want students to be numerate and understand the Mathematics of the world around them, whilst also having an appreciation and love of Mathematical concepts.

Problem solving is embedded from year 7 all the way through to year 13, with a 5-year SOW in year 7 to 11, based upon students' current level of knowledge and understanding. Teaching is based around an interleaved curriculum, with links made between multiple topics. Students are first taught to fully understand the knowledge, and then given time to fully master the skill. Students are then given opportunities to apply their understanding and skills to practical applications. Each stage of students 5-year plan builds upon students' prior knowledge and seeks to develop this further. Our curriculum is designed to be fluid, data-led and student-centric, with it being adapted as and when necessary.

HALF TERM 1:	HALF TERM 2:	HALF TERM 3:
STUDENTS MUST KNOW:	STUDENTS MUST KNOW:	STUDENTS MUST KNOW:
Number Properties 1	Geometry & Measures	Approximations
All operations of integers/decimals/fractions, place value/ordering,	Angles in triangles, conversion of units.	Rounding to significant figures, Check answers by estimation
BIDMAS, Powers and Roots, Check by Inverse Operations	Number Properties 2	Algebra 2
Interpreting Data	Prime Factors, HCF & LCM	Simplifying (including with powers), Expanding and Factorising,
Scatter Graph, Bivariate Data, Correlation, Line of Best Fit	Algebra 1	Solving Equations
Collecting and Interpreting Data	Collecting Like Terms, Substitution	Sequences & Graphs
Averages from a list, averages from a table, Pie Charts, Vertical Line	FDP	Coordinates, Linear graphs, Sequences, Nth Term, Non Linear
Diagrams	Fractions of amount & shapes, Converting FDP, Compare using	Sequences (Fibonacci, Geometric, Quadratic)
	Fractions/Decimals/Percentages	Ratio/Proportion
		Simplifying Ratio, Writing Ratios, Sharing by a ratio
HOW THIS WILL BE ASSESSED:	HOW THIS WILL BE ASSESSED:	HOW THIS WILL BE ASSESSED:
Low stakes knowledge tests as starters	Low stakes knowledge tests as starters	Low stakes knowledge tests as starters
End of unit assessments at the end of each half term	End of unit assessments at the end of each half term	End of unit assessments at the end of each half term
Half termly assessments covering all previously learnt topics	Half termly assessments covering all previously learnt topics	Half termly assessments covering all previously learnt topics

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HALF TERM 4:

STUDENTS MUST KNOW:

Scale

Measuring Lines and Angles, Scale drawings, Maps, Identifying Scale Factors from Given Sides

Shape Properties

Properties of 2D shapes, Understand the terms Parallel/Perpendicular/Right Angle

Algebra 3

Changing the subject, Substitution into Formulae, Understand difference between identity and equation

HOW THIS WILL BE ASSESSED:

Low stakes knowledge tests as starters End of unit assessments at the end of each half term Half termly assessments covering all previously learnt topics **HALF TERM 5:**

STUDENTS MUST KNOW:

Transformations

Rotational and reflectional symmetry, Congruency, Enlargements

Probability

Probability of events from a list, Carry out experiments and record results, sample space

Triangles & Constructions

Constructions and Loci

Circles

Area & Circumference, Compound Shapes

HOW THIS WILL BE ASSESSED:

Low stakes knowledge tests as starters

End of unit assessments at the end of each half term Half termly assessments covering all previously learnt topics

HALF TERM 6:

STUDENTS MUST KNOW:

Solving Equations & Inequalities

Forming and solving equations including brackets, negatives, fractions and from worded problems.

Plotting & Sketching Graphs

Linear Graphs, Quadratic Graphs, Gradient, Equation of a line

HOW THIS WILL BE ASSESSED:

Low stakes knowledge tests as starters End of unit assessments at the end of each half term Half termly assessments covering all previously learnt topics

Home learning set will consist of a combination of: Weekly Sparx tasks (due each Wednesday) and additional worksheets where appropriate