Stuart Bathurst Catholic High School



Mathematics Department

Long-term Sequencing Year 9 Stage 2

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.

н	Δ	LF	т	FF	51	1	1	

STUDENTS MUST KNOW:

Number Properties 1

All operations of integers, place value/ordering decimals and fractions, BIDMAS (simple parts)

Geometry & Measures

Interior angles of triangles,

Properties of equilateral and isosceles triangles

Number Properties 2

Prime numbers, Factors, Multiples, HCF & LCM (in simple cases)

Algebra 1

Understand algebraic notation

Substitution

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 2:

STUDENTS MUST KNOW:

FDP

Fractions of amount & shapes, Converting simple FDP, Percentage of amounts (Non-Calc), Express one quantity as a percentage of another

Approximations

Rounding to 10, 100, 100, Rounding to dp, Rounding to 1s.f

Algebra 2

Collecting like terms, Expanding single brackets, Solving 1 step equations

Collecting & Interpreting Data

Averages from a list, Construct pictogram & bar charts, Measuring angles, Angles around a point

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 3:

STUDENTS MUST KNOW:

Sequences & Graphs

Coordinates, Linear graphs, Sequences, Nth Term of simple sequences,

Proportion 1

Simplifying Ratio, Writing Ratios and proportions, Sharing by a ratio,

Ratio and Scale

Measuring Lines and Angles, Scale drawings, Maps,

Shape Properties

Properties of polygons up to 8 sides, Properties of triangles & quadrilaterals, Missing angles on a straight line, a triangle, a quadrilateral, and around a point, Lines of symmetry.

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

Stuart Bathurst Catholic High School

HALF TERM 4:

STUDENTS MUST KNOW:

Algebra 3

Substitution, Input & Output machines

Transformations

Rotational and reflectional symmetry. Reflect shapes. Basic congruent shapes

Probability

Probability of events using words and as fractions, probability scale

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:

Triangles and Congruency

Constructions a triangle (SSS)

Interpreting Data

Plot coordinates, Scatter Graph

Circles

Identify parts of a circle, construct circles given the radius or diameter

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:

Proportion

Simple Direct and inverse proportion,

Equations & Inequalities

Solving 1 and 2 step equations

Plotting and Sketching Graphs

Plot coordinates, Horizontal and vertical lines, Linear Graphs

(positive gradient)

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.