Mathematics Year 8 Learning Journey

Fractions & Percentages

- Converting between FDP
- Using percentage multipliers

Sequences

- Generate sequences
- Find the position to term rule for linear sequences

Brackets, Equations and Inequalities

- Expand and simplify single bracket
- Expand binomials
- Solve equations

Working in Cartesian Plane

- Co-ordinates
- Parallel lines
- Find the mid point

Representing Data

- Scatter graphs
- Frequency tables
- Grouped data
- Two way tables

Tables and Probability

- Sample spaces
- Venn diagrams
- Product rule for counting

Multiply and Divide Fractions

- Multiply and divide fractions including mixed numbers
- Reciprocal

Ratio, Scale and Multiplicative Change

- Simplifying ratio
- Dividing in a given ratio
- Proportion

Prime Numbers

- Types of numbers
- HCF & LCM
- Prime factorisation

Year 8

Geometric Notation

- Angles
- Triangles & quadrilaterals
- Construct triangles & pie charts

Geometric Reasoning

- Angles on a straight line
- Angles around a point
- Angles in polygons

Probability & Sets

- Venn diagrams
- Set notation
- Probability scale - words and values

Year 8 Overview

To support students in a secure understanding of mathematical concepts, topics from KS2 and Y7 are revisited and built upon. Multiple representations continue to allow students to make connections across different areas of mathematics. Discussion and precise use of mathematical language remain a focus and students deepen their grasp of concepts in class discussion. There is the opportunity in lesson for students to move from fluency practice of skills to application of knowledge through problem-solving.

"Without mathematics, there's nothing you can do. Everything around you is mathematics. Everything around you is numbers." **Shakuntala Devi**