

# Curriculum Journey – Maths



9

**Units**  
 Developing Geometry  
 Reasoning with Algebra  
 Working in three dimensions  
 Reasoning with Data  
 Reasoning with Number  
 Reasoning with Geometry

**Skills**  
 Angles in parallel lines and polygons,  
 Area of trapezia and circles  
 Calculating with roots & indices including standard form.  
 Inequalities – including solving.  
 Expanding and factorising algebraic expressions  
 Develop understanding of probability  
 Solve problems involving proportion, ratio and fractions.  
 Pythagoras Theorem.  
 Congruence and similarity.  
 Tree diagrams, independent and combined events,  
 Interpret statistical diagrams and measures of data.  
 Transformations on shapes including enlargement and reflection.

Deepening and strengthening students' knowledge of the fundamental skills required for KS4

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**Units**  
 Proportional Reasoning  
 Representations  
 Algebraic Technique  
 Developing number  
 Developing Geometry

**Skills**  
 Prime numbers and proof.  
 Ratio and scale  
 Multiplicative change  
 Multiplying and dividing fractions  
 Working in the Cartesian plane  
 Representing data  
 Sets, Tables and probability  
 Brackets, equations, and inequalities  
 Sequences, indices, fractions, and percentages.  
 Standard index form and number sense.

Building on and developing mathematical knowledge since KS2

7

**Units**  
 Algebraic Thinking  
 Place value and proportion  
 Applications of number  
 Fractions and percentages of amounts  
 Directed number  
 Fractional thinking  
 Lines and angles  
 Reasoning with number

**Skills**  
 Sequences, understanding algebraic notation.  
 Ordering decimals and integers.  
 FDP equivalence.  
 Solving problems with four operations including directed numbers.  
 Calculating with fractions.  
 Constructing, measuring, and using angles.  
 Developing geometric reasoning.  
 Developing number sense,

