

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

8

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,

