

Curriculum overview Mathematics

Key Stage 3

Year	Autumn Term	Spring Term	Summer Term
7	Number Four Operations Multiples, Factors and Primes Place value Rounding Negative Numbers Algebra Sequences Coordinates Shape, Space and Measures Symmetry Perimeter and Area	Number Powers and Roots Order of Operations Fractions Ratio Algebra Simplifying Expressions Substitution Conversions Conversion Graphs Shape, Space and Measures Angles Data Handling Comparing Distributions Averages Reading and Interpreting Charts and Graphs	Number Ordering Fractions, Decimals and Percentages Algebra Brackets Inequalities Shape, Space and Measures Journal of Surface Area Transformations Data Handling Probability Scattergraphs Venn Diagrams
8	 Number Written and Mental Methods Negative Numbers Decimals Standard Form Rounding Indices Prime Factorisation 	 Number Fractions Percentages and Percentage Change Fractions, Decimals and Percentages Algebra Sequences and nth term 	 Number Ratio and Proportion Calculator Methods Order of Operations Estimation Algebra Real Life Graphs

 Algebra Simplifying Substitution Coordinates and Straight-line Graphs Shape, Space and Measures Angle Facts Classifying Shapes Metric Conversions Data Handling Averages from Tabulated Data Probability 	 Solving Linear Equations Shape, Space and Measures Area and Perimeter of 2D shapes Nets Plans and Elevations 	Shape, Space and Measures Transformations of 2D shapes Maps and Scale Drawings Accurate Drawing and Construction Loci Data Handling Statistical Diagrams Correlation Grouped data Time Series
 Number Number Properties Indices Inequalities Standard Form Calculations Algebra Expressions Substitution Brackets and Factorising Coordinates Shape, Space and Measures Area Circle Properties Angles in Polygons Construction Pythagoras' Theorem Data Handling Averages and Comparing Data 	 Number Fractions and Reciprocals Percentages and Percentage Change Recurring Decimals to Fractions Algebra Equation of a Straight Line Solving Equations and Inequalities Shape, Space and Measures Compound Measures Scale Drawings Loci Congruence Transformations Scale, Area and Volume Factors 	Number • Errors and Bounds • Ratio and Proportion Algebra • Sequences Shape, Space and Measures • Nets, Surface Area and Volume • Trigonometry Data Handling • Representing Data • Two-Way Tables • Probability

Key Stage 4 course outline

GCSE Mathematics OCR J560

Year	Autumn Term	Spring Term	Summer Term
10	 Number Indices Standard Form Fractions Percentages Exponential Growth and Decay Algebra Manipulating expressions Linear Equations Straight Line Graphs Equations of Circles (Higher Only) Shape, Space and Measures Pythagoras' Theorem Trigonometry (Higher Only) Angle Facts and Proof Symmetry 	Number Ratio and Proportion Rounding, Estimation and Bounds Whole Number Theory Algebra Quadratics Inequalities Shape, Space and Measures Transformations Circle Theorems (Higher Only) Area Circle Area and Circumference Data Handling Summary Statistics Probability	Number Fractions, Decimals and Percentages Algebra Real Life Graphs Kinematics Simultaneous Equations Sequences Shape, Space and Measure Units of Measure Construction and Loci Plans and Elevations Angle Facts Data Handling Probability Correlation
11	Number Surds and Exact Values Direct and Inverse Proportion Algebra Completing the Square (Higher only) Sketching Functions (Higher only) Trigonometry Shape, Space and Measure Surface Area and Volume	 Number Iteration (Higher only) Order of Operations Algebra Graph Transformations (Higher Only) Interpreting Straight Line Graphs Functions and Inverse Operations Proof Exponential Functions (Higher Only) 	Revision and exam technique

 Congruence and Similarity 	 Inequalities in Two Variables (Higher Only) 	
 Data Handling Sampling and Data Representing Data Venn Diagrams 	Shape, Space and Measures • Vectors • Properties of Polygons and Circles	