

Maths

Key Stage 3 Overview



What will your child study at Key Stage 3 (Years 7-8)?

Year 7 Curriculum Overview

7	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 2	Summer 2
Topic	Solve word problems (add and subtract)	Explain and investigate (multiply and divide)	Geometry	Fractions	Applications of algebra	Percentages and statistics
Covered	<ul style="list-style-type: none"> Place value (including decimals) Add and subtract (including decimals) Rounding Perimeter Mental strategies 	<ul style="list-style-type: none"> Factors and multiples Multiply and divide (including decimals) Area of rectangle, triangle and parallelogram Calculate the mean Further mental strategies 	<ul style="list-style-type: none"> Draw and measure angles Find unknown angles (straight lines, at a point, vertically opposite) Properties of triangles and quadrilaterals Unit conversions (linear) Symmetry and tessellation 	<ul style="list-style-type: none"> Equivalent fractions Compare and order fractions and decimals Change mixed numbers to improper fractions and vice versa Fraction of a quantity Multiply and divide fractions 	<ul style="list-style-type: none"> Order of operations Substitution Form and simplify algebraic expressions Expand over a single bracket, and factorise Sequences (term-to-term, not nth term) 	<ul style="list-style-type: none"> Construct and interpret statistical diagrams including pie charts Convert between percentages, vulgar fractions and decimals Percentage of a quantity Find the whole, given the part and the percentage

Year 8 Curriculum Overview

Tier	Autumn	Spring	Summer
8 Lower	<ul style="list-style-type: none"> • Number properties and calculations • Statistics • Expressions and equations • Decimals calculations • Angles • Number properties • Sequences • Fractions and percentages • Number calculations • Sequences and equations • Statistics • Fractions, decimals and percentages 	<ul style="list-style-type: none"> • Shapes and measures in 3D • Graphs • Geometry in 2D and 3D • Algebraic and real-life graphs • Multiplicative reasoning 	<ul style="list-style-type: none"> • Algebraic and geometric formulae • Probability • Polygons and transformations • Probability • Transformations
8 Medium	<ul style="list-style-type: none"> • Indices and standard form • Expressions and formulae • Dealing with data • Transformations • Multiplicative reasoning 	<ul style="list-style-type: none"> • Constructions • Equations, inequalities and proportionality • Circles, Pythagoras and prisms 	<ul style="list-style-type: none"> • Sequences and graphs • Probability • Comparing shapes
8 Higher	<ul style="list-style-type: none"> • Angles and shapes • Sequences and graphs • Scale drawings and measurements • Graphs • Powers and roots • Quadratics 	<ul style="list-style-type: none"> • Inequalities, equations and formulae • Non-linear graphs • Accuracy and measures 	<ul style="list-style-type: none"> • Graphical solutions • Trigonometry • Mathematical reasoning