

# Year 7—Maths

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Content	Sequences  Algebraic notation  Equality and equivalence	Place value, ordering decimals and integers  Fraction, decimal and percentage equivalence	Solving problems with addition and subtraction  Solving problems with multiplication and division  Fractions and percentages of amounts	Operations and equations with directed number  Addition and subtraction of fractions	Constructing, measuring and using geometric notation  Developing geometric reasoning	Developing number sense  Sets and probability  Prime numbers and proof

# Year 8—Maths

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Content	Ratio and scale  Multiplicative change  Multiplying and dividing fractions	Working in the Cartesian plane  Representing data  Tables & probability	Brackets, equations and Inequalities  Sequences  Indices	Fractions and percentages  Standard index form  Number sense	Angles in parallel lines and polygons  Area of trapezia and circles  Line symmetry and reflections	The data handling cycle  Measures of location

# Year 9—Maths

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Content	<p>HIGHER;</p> <p>Calculations, checking and rounding</p> <p>Indices, reciprocals, hierarchy of operations</p> <p>Fractions</p> <p>Polygons, angles and parallel lines</p> <p>FOUNDATION:</p> <p>Integers</p> <p>Decimals</p> <p>Angles, lines and symmetry</p> <p>Polygons and parallel lines</p>	<p>HIGHER:</p> <p>Averages and range</p> <p>Representing and interpreting data</p> <p>Constructions, loci and bearings</p> <p>FOUNDATION:</p> <p>Statistics and questionnaires</p> <p>Tables</p> <p>Charts and graphs</p>	<p>HIGHER:</p> <p>Factors, multiples and primes</p> <p>Standard form</p> <p>Algebra the basics</p> <p>Sequences</p> <p>FOUNDATION:</p> <p>Averages</p> <p>Indices, powers and roots</p> <p>Factors, multiples and primes</p>	<p>HIGHER:</p> <p>Equations and formulae</p> <p>Scatter graphs</p> <p>Percentages</p> <p>FOUNDATION:</p> <p>Algebra the basics</p> <p>Fractions</p> <p>Percentages</p>	<p>HIGHER:</p> <p>Pythagoras theorem and trigonometry</p> <p>Graphs the basics and real life graphs</p> <p>Linear graphs and coordinate geometry</p> <p>FOUNDATION:</p> <p>Expressions and formulae</p> <p>Real life graphs</p> <p>Straight line graphs</p>	<p>HIGHER:</p> <p>Ratio and proportion</p> <p>Quadratic, cubic and other graphs</p> <p>Perimeter, area and 3D forms</p> <p>FOUNDATION:</p> <p>Equations</p> <p>Inequalities</p> <p>Perimeter and area</p>

# Year 10—Maths

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Content	<p>HIGHER:</p> <p>Probability</p> <p>Circles, cylinders, cones and spheres</p> <p>Inequalities</p> <p>Surds</p> <p>FOUNDATION:</p> <p>Interior and exterior angles in polygons</p> <p>Sequences</p> <p>Ratio</p> <p>Probability</p>	<p>HIGHER:</p> <p>Accuracy and bounds</p> <p>Transformations</p> <p>Quadratic and simultaneous equations</p> <p>FOUNDATION:</p> <p>Quadratic expressions and equations</p> <p>Proportion</p> <p>Quadratic graphs</p>	<p>HIGHER:</p> <p>Multiplicative reasoning</p> <p>Similarity and congruence in 2D and 3D</p> <p>Graphs of trigonometric functions</p> <p>FOUNDATION:</p> <p>3D forms and volume</p> <p>Fractions and reciprocals</p>	<p>HIGHER:</p> <p>Further trigonometry</p> <p>Collecting data</p> <p>Cumulative frequency, box plots and histograms</p> <p>FOUNDATION:</p> <p>Transformations</p> <p>Multiplicative reasoning</p> <p>Pythagoras and trigonometry</p>	<p>HIGHER:</p> <p>Quadratics, expanding more than two brackets, more graphs</p> <p>Circle theorems</p> <p>Circle geometry</p> <p>FOUNDATION:</p> <p>Probability 2</p> <p>Constructions, loci and bearings</p> <p>Indices and standard form</p>	<p>HIGHER:</p> <p>Algebraic fractions</p> <p>Proof</p> <p>Function notation</p> <p>FOUNDATION:</p> <p>Circles, cylinders, cones and spheres</p> <p>Similarity and congruence in 2D</p>

# Year 11—Maths

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Content	<p>HIGHER:</p> <p>Vectors and geometric proof</p> <p>Reciprocal exponential and other graphs. Gradient and area under graph</p> <p>Direct and inverse proportion</p> <p>FOUNDATION:</p> <p>Vectors</p> <p>Simultaneous equations</p> <p>More graphs</p> <p>Proof</p>	Revision for GCSE exams in term 5 and 6				

# Year 12—Maths

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Content	Algebraic expressions Quadratics Equations and inequalities Straight line graphs Circles	Graphs and transformations Trigonometry Algebraic methods Binomial expansion	Differentiation Integration Vectors Exponentials and logarithms	<b>Statistics</b> Data collection Measures of location and spread Representation of data Correlation  <b>Mechanics</b> Modelling in mechanics Constant acceleration Forces and motion	<b>Statistics</b> Probability Statistical distributions Hypothesis testing  <b>Mechanics</b> Variable acceleration  <b>AS exams</b>	<b>Start A2 content</b> Functions and graphs Sequences and series Algebraic methods Binomial expansion

# Year 13—Maths

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Content	Radians Trigonometric functions Trigonometry and modelling Parametric equations Differentiation	Integration Numerical methods Vectors	<b>Statistics</b> Regression, correlation and hypothesis testing  Conditional probability  <b>Mechanics</b> Moments Forces and friction Projectiles	<b>Statistics</b> Normal distribution  <b>Mechanics</b> Application of forces Further kinematics	Revision  <b>A level exams</b>	<b>A level exams</b>

# Core Maths

	Compulsory Core Pure	Decision option	Mechanics option	Further pure option
Year 12 content	<div>Complex numbers</div> <div>Argand diagrams</div> <div>Series</div> <div>Roots of polynomials</div> <div>Volumes of revolution</div> <div>Matrices</div> <div>Linear transformations</div> <div>Proof by induction</div> <div>Vectors</div>	<div>Algorithms and graph theory</div> <div>Algorithms on graphs</div> <div>Critical path analysis</div> <div>Linear programming</div>	<div>Momentum and impulse</div> <div>Work, energy and power</div> <div>Elastic strings and springs and elastic energy</div> <div>Elastic collisions in one dimension</div> <div>Elastic collisions in two dimensions</div>	<div>Vectors</div> <div>Conic sections</div> <div>Inequalities</div> <div>t– formulae</div> <div>Taylor series</div> <div>Methods in calculus</div> <div>Numerical methods</div> <div>Reducible differential equations</div>
Year 13 content	<div>Complex numbers</div> <div>Further algebra and functions</div> <div>Further calculus</div> <div>Polar coordinates</div> <div>Hyperbolic functions</div> <div>Differential equations</div>			