

Herschel Grammar School
Mathematics Curriculum Overview 2025/26

Curriculum Intent
<i>“Helping you to become the best Mathematician you can be.”</i>

Curriculum Impact
<i>“Providing you with the confidence to learn difficult new skills and apply them to solve unfamiliar problems. Something that should be applicable in any career.”</i>

Through education, we have the privilege of engaging directly with children and young people who:

- are passionate about the natural world
- want to do their best to protect it
- can influence their wider communities

Throughout this document, whenever the following icon is used , it indicates that the teaching and learning is linked to one or more of the following:

- nature
- the causes and impacts of climate change
- careers in the green economy
- the importance of sustainability

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Year group	Year 7
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Rationale for sequencing	• HT1 Negative numbers before T2 HT1 substitution into algebraic expression • HT2 Angle measuring before moving to T2 HT1 drawing pie charts • HT1 HCF before moving to H2 addition of fractions • HT1 Collecting like terms linking to H1 expanding brackets • P2 Equations of vertical/horizontal lines linking to P2 transformations
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Term 1	
Half term	Half term
Multiples, factors and primes • HCF, • LCM, • prime factor decomposition Place value, ordering and rounding • Multiples of powers of 10, • Rounding d.p. Linear Sequences • Term to term, • position to term, • nth term, patterns Area and perimeter of 2D shapes • Triangles, parallelograms, composite shapes Volume and Surface Area • Cubes, cuboids, isometric drawing Collecting and representing data • Tally, Bar charts, line graphs	Arithmetic with directed numbers • Add, subtract, multiply, divide pos and neg numbers, use in practical situations Algebraic expressions • Collecting like terms Multiply out a single bracket • Begin to understand the use of algebra for proof • Derive simple algebraic expressions and formulae Fractions • Simplify, Express one number as a fraction of another Convert between top-heavy fractions and mixed numbers Add and subtract Multiply and divide simple fractions Calculate fractions of a quantity, including in practical contexts Angles-measuring and calculating • Use a protractor to measure and draw angles • Possible circle theorems investigation to offer context for non-routine practice (eg. investigate cyclic quadrilaterals Problem solving
Term 2	
Half term	Half term
Pie Charts	Linear equations

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• Draw and interpret pie charts  Percentages • Of a quantity, increase, decrease, one quantity as a percentage of another Negative numbers and calculator • Substitute into formulae, Solve equations with negatives and fractions, Use of calculator Circumference and area of circles • Relationship between diameter and circumference, Formula for area and circumference, compound shapes involving circles and rectilinear shapes	• Solving equations unknowns on both sides Ratio and proportion • Direct proportion, recipes, Imperial units conv, Simplifying, Dividing in a given ratio, Graphs of linear functions • Vertical, horizontal lines, $y=x$, points satisfy straight line, understand gradient, Simple distance /time graph Transformations: Reflection, Translation, Rotation • Lines of symmetry, rotational symmetry, symmetrical designs, Translation, Rotation, recognise congruent shapes, Combined transformations
Term 3	
Half term	Half Term
Averages and Spread • Find mean median mode of range of statistics, measures of spread Loci and constructions • Construct 30, 60, 90 degree angle with compass and ruler. Triangles given, SSS, SAS, ASA Problem solving with loci. Statistical survey • Students work independently or groups on sustainability 	Combinatorics Finding possible combinations, arrangements 3D objects - Plans and Elevations • Draw 3D objects isometrically, use plans and elevations to represent 3D objects Consolidation of algebra skills • Simplify algebraic expressions, collect like terms, multiply out brackets, Factorisation of quadratics Factorise simple quadratics, Solving simple quadratics by factorizing.

Assessment Plans:	
Term 1	HT1 : No formal assessment to let students settle into secondary environment HT2: Early in HT2 - T1 Assessment Wk 7 - Reports
Term 2	HT3 : Mid HT3 – T2 Assessment

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	HT4: No formal assessments Wk 1 – Subject Evening
Term 3	HT5: Early HT5 - Exams (T3) HT6: Early HT6 – T4 Assessment Wk 3 – Reports Issued Wk 4 - Subject Evening
Year group	8

Rationale for sequencing	• HT1 Area and Circumference of circles linked to HT1 Volume and SA of cylinders • HT1 BIDMAS before moving on to HT2 operations with decimals/fractions • HT2 Fractions done in preparation for probability in HT3. • Solving linear equations in HT1 prior to linear inequalities in HT5
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Term 1	
Half term 1	Half term 1
BIDMAS • <i>Recap of BIDMAS</i> Algebra • <i>Recap of simple algebraic manipulation</i> Sequences • <i>Recap recognising famous sequences</i> • Generate sequences using the nth term • Find the term-to-term rule for a given sequence • Recognise arithmetic and geometric sequences • Nth term of a linear sequence Area and perimeter • <i>Recap of effective use of calculator</i> • <i>Recap of rectangles and triangles</i> • Compound shapes from rectangles and triangles • Deduce and apply formulae for areas of parallelogram and trapezium, compound shapes from parallelogram and trapezium Circles • <i>Recap use of formula for area and circumference of circles</i> • Calculate the radius and diameter given the perimeter or area	Decimals • 4 operations with decimals • Solve worded problems with decimals Fractions • 4 operations with fractions • Fraction of an amount • Solve worded problems with fractions Statistical methods • Averages and the range of listed discrete data • Understand the meaning of the range • Compare multiple sets of data using averages and spread • Draw and interpret Bar charts, Pie charts, Stem & leaf diagrams • Calculate mode and median from Stem & leaf diagrams • Statistical project • Averages of discrete and grouped data from frequency tables Histograms • Draw and interpret histograms for grouped data of equal widths

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Area and perimeter of compound shapes	
Volume & Surface Area - Prisms and cylinders - Compound shapes Negative numbers Recap - 4 operations with negative numbers including indices and BIDMAS - Substitute integers into expressions and formulae Algebra Recap simple linear equations with 2 operations - Solving linear equations, with brackets, unknowns on both sides, positive and negative integer answers Recap – collect like terms, expand a single bracket - Expand single brackets and collect like terms - Construct and solve linear equations from word problems and compound shapes	
Term 2	
Half term 2	Half term 2
Significant figures - Round large and small decimal quantities - Estimation Pythagoras' Theorem - Derive Pythagoras' Theorem through Tilted Squares investigation - Solve problems involving right-angled triangles - Simple proofs and applications of Pythagorean Theorem in practical contexts Ratio and Proportion - Ratio notation, share an amount, find an unknown part from a given known part - Recipes, exchange rates, best buys Probability - Use and understand Venn diagram vocabulary	Probability - Sample space diagrams - Experimental probability - including expected frequency using experimental probability Linear equations Recap solving linear equations including all forms of rearrangement Angles - At a point, straight line, vertically opposite - Parallel lines – corresponding and alternate - Proof of sum of angles in a triangle using alternate angles Recap angle sum of any polygon using angle sum of a triangle - Sum of exterior angle - Solve angle problems - Bearings

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Calculate probabilities using Venn diagrams and two-way tables	- Scale diagrams and maps Percentages Recap percentage of a quantity without a calculator - Percentages using multipliers - Express one quantity as a percentage of another Recap percentage increase and decrease without a calculator - Percentage increase and decrease using multipliers - Repeated percentage increase and decrease - Reverse percentages
Term 3	
Half term 3	Half Term 3
Linear graphs - Recognise graphs of the form $y = \text{constant}$ and $x = \text{constant}$ - Coordinates in all 4 quadrants - Use graphs to estimate values of x and y - Understand and calculate gradients of linear graphs and line segments - Calculate gradients given 2 points - Understand and connect $y=mx+c$ with gradient and y-intercept Scatter graphs - Bivariate data - Recognise and describe relationships - Understand correlation does not imply causation Linear inequalities Recap solve linear equations - Represent solutions to inequalities on a number line and using set notation - Solve simple linear inequalities with positive and negative coefficients of x - Understand change of sign when multiplying or dividing by a negative - Construct and solve linear inequalities from worded problems Algebra	Simultaneous equations - Estimate solutions of simultaneous equations graphically - Solve from word problems and practical contexts using intuitive and algebraic methods Non-linear functions and their graphs - Understand the terms and recognise linear, quadratic and cubic graphs - Plot graphs of quadratic and cubic functions and recognise the shapes of linear, quadratic and cubic graphs - Use quadratic and cubic graphs to estimate values of x and y for given values - Estimate solutions to quadratic and cubic equations - Understand the number of possible solutions for linear, quadratic and cubic equations - Trial and improvement Quadratic expressions and equations - Expand products of 2 (or more) brackets - Application of expanding and simplifying brackets - Factorise and solve simple quadratic equations Factors, Multiples and Primes Recap vocabulary

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• Substitution • Changing the subject of simple formulae	• <i>Recap prime factorisation using a factor tree, express in product notation</i> • HCF and LCM for a pair/triple numbers using lists and prime factorisation • Solving problems with HCF LCM
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Key Assessment Plans:	
Term 1	HT1: Wk 7 – T1 Assessment HT2: Wk 2 - Reports
Term 2	HT3: Wk 2 - T2 Assessment HT4: No formal assessments Wk 1 - Subject Evening 1
Term 3	HT5: Wk 2 - Exams (T3) HT6: Wk 1 – Reports : Wk 5 - Subject Evening 2 : Wk 6 – T4 Assessment

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Year group	9
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Rationale for sequencing	HT2- Recap area and circumference of circles to do arc length and sector area. HT4- Recap of prime factorisation before HCF/LCM contextual problems. HT1- Indices covered which follows through by standard form in HT5. HT6- Recap constructions prior to locus problem solving. HT5- Angles on parallel lines reinforced prior to Bearings HT6.
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Term 1	
Half term 1	Half term 2
Decimals • <i>Recap of 4 operations</i> • Rounding, Significant figures and decimal places • Estimation problems Indices, roots and reciprocals • <i>Recap of properties of indices</i> • <i>Recap of prime factorisation</i> • Introducing fractional and negative indices Algebra • <i>Recap of collecting like terms, multiplying out single and pairs of brackets, substitution.</i> • Factorising into single brackets and trinomials • <i>Recap Solving linear equations, with brackets, unknowns on both sides, fractional and negative answers.</i> • Form and solve linear equations from context.	Area and perimeter • <i>Recap of area and perimeter rectangles, triangles, trapeziums, circles, compound shapes.</i> • Arc lengths and areas of sectors. Data-handling • <i>Recap Mean, median, mode and range from list and from frequency table.</i> • Discrete, continuous and qualitative data. • Comparing distributions • <i>Recap bar-charts, pie-charts, stem and leaf diagrams.</i>  • Frequency polygons. • Time series graphs, analysing trends graphically.

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Term 2	
Half term	Half term
Data-handling - Cumulative frequency, cumulative frequency graphs - Median, upper and lower quartiles, inter-quartile range from cumulative frequency graph. - Boxplots, comparing distributions using boxplots  Number - Standard form - Surds - Ratio and proportion Pythagoras <i>Recap</i> - Working with surds	Prime Factorisation <i>Recap of Prime Factorisation, HCF and LCM</i> - Finding roots using Prime Factorisation - Using HCF and LCM to solve contextual questions Fractions <i>Recap 4 operations, including mixed numbers</i> - Converting between fractions and recurring decimals - Investigate which fractions have recurring decimals Percentages <i>Recap percentage of an amount, one number as percentage of another.</i> - Multipliers - Percentage change - Reverse percentages.
Term 3	
Half term	Half Term
Trigonometry in right-angled triangles <i>Recap of simple linear equations with fractions, unknown on top or bottom fraction.</i> - Investigating ratios in similar right-angled triangles. - Introducing sin, cos and tan. - Finding unknown sides - Finding unknown angles Sequences <i>Recap of nth term of linear sequence.</i> <i>Recap of geometric sequences.</i> - Geometric sequences with surd, negative or fractional ratio. - Generating and continuing quadratic sequences. - Nth term of simple quadratic sequence. Angles and Polygons <i>Recap corresponding, alternate and vertically opposite angles.</i> - Proof of angle sum in a triangle - External angles in polygons	Straight line graphs - Find the gradient of a line segment - Find the equation of the line through two given points - Find the equation of a line segment given a point and the gradient - Gradient of Parallel and perpendicular lines Real life graphs - Draw and interpret in context distance-time/velocity-time graphs. - Know that the area under a velocity-time graph is equal to distance travelled and calculate/estimate using trapezia. - Draw and interpret in context, straight line graphs for real-life situations, ie, conversion graphs and bills. Recap-Scattergraphs <i>Draw and interpret scattergraphs in terms of the relationship between 2 variables</i> <i>Draw and use a line of best fit to predict values of a variable.</i>

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- Sum of internal angles in polygons - Angles in regular polygons Straight line graphs - Identify gradient and intercept from real life context. - Find the midpoint and length of a line segment.	<i>Correlation versus causation.</i> <i>Recap constructions from 7/8-</i> <i>Constructing triangles, perpendicular bisectors at a point/on a line and bisecting angles.</i> <i>Construct angles 30, 45, 60 and 90.</i> Locus and constructions - Understand a locus is a set of points that satisfy a given rule. - Find the locus of points equidistant from a point/ from 2 points/from a line/line segment and two lines. - Problem solving with loci. Bearings - Understand, draw and measure bearings. - Calculate bearings and solve bearing problems including on scaled maps. - Problem solving with bearings.
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Key Assessment Plans:	
Term 1	HT1: Wk 6 – T1 Assessment : Wk 7-Reports HT2: Wk2 -Subject evening
Term 2	HT3: Wk 2&3 – Exams : Wk 4-Reports : Wk 6 -Subject evening HT4: Wk 3-T2 Assessment
Term 3	HT5: Wk 4 - T3 Assessment HT6: Wk 3 – Reports : Wk 6 - Informal Assessment

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Year group	10
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Rationale for sequencing	• HT1 - Equations of a straight line which links to HT2 Scattergraphs –equation of a line of best fit. • HT1 – Geometric sequences linking to HT5- Compound interest. • Recap factorising quadratics before we move onto solving quadratics in HT4. • HT4- solving quadratics followed by HT5- quadratic simultaneous equations and quadratic inequalities • HT3- Recap trig with right angle triangles before moving onto non-right-angled triangle. • HT6- Compound measures before similar shapes and LSF/ASF and VSF.
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Term 1	
Half term	Half term
Probability • Sample space diagrams/two-way tables • Probability trees (with/without replacement) • Venn diagrams • Unconditional Probability • Conditional probability • Experimental/relative frequency Sequences  • Recap of geometric sequences • Nth term of more difficult quadratic sequences • Real life problem-solving sequences Straight line graphs  • Recap of gradients of straight lines • Recap plotting and drawing straight line graphs • Parallel and perpendicular lines • Direct proportion and straight-line graphs	Scattergraphs  • Recap scattergraphs • Equations of the line of best fit. • Non-linear best fit models. 3D solids • Convert between metric units of volume. • Volume of Prisms. • Volume of cylinders, spheres and cones + in terms of pi. • Surface area of prisms, cylinders, spheres and cones. • Frustum of a cone. • Volume of compound 3D shapes. • Surface area of compound 3D shapes • Forming complex equations and finding missing variables. Upper and lower bounds  • Finding the upper and lower bounds • Problem solving with upper and lower bounds

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Term 2	
Half term	Half term
Non-linear graphs • Recap -Plot and recognise quadratic, cubic and reciprocal graphs. • Plot circle graphs. • Find solutions of quadratic and cubic graphs graphically. • Real life problems related to quadratic and cubic graphs. Transformations • Reflect shapes given a line. • Translate shapes given a vector. • Rotation of shapes given the centre of rotation and degrees. • Combinations of transformations • Enlargements of shapes positive, negative and fractional scale factors. • Find LSF after ASF with enlargement of 2D shapes Trigonometry • Recap- Trigonometry with right angle triangles. • Non-right-angled triangles - Sine Rule and Cosine Rule • Area of a non-right-angled triangle • Problem solving with non-right- angled triangles	3D Trigonometry • 3D Trigonometry and Pythagoras in cuboids and other shapes. • Coordinates in 3D. • Angle between a line and a plane. Quadratic Equations • Recap- factorising quadratics (a=1). • Solve quadratic equations by factorising (a=1). • Solve with coefficient of a greater than 1, including difference of two squares. • Completing the square (a=1). • Use completing the square to find the maximum and minimum of a quadratic equation. • Solve quadratics by completing the square. • Use of quadratic formulae. • Practice all factorising and solving quadratic equations.
Term 3	
Half term	Half Term
Simultaneous equations • Solve linear simultaneous equations algebraically. • Solve one linear and one quadratic simultaneous equation algebraically. • Problem solving with simultaneous equations. Linear inequalities • Solve linear inequalities in one variable and represent this on a number line.	Compound measures • Convert between linear, square and cubic measures. Similarity and congruence • Relationship between LSF, ASF and VSF of mathematically similar shapes. • Finding missing lengths, areas and volume in similar 3D solids.

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- Solve linear inequalities using regions. - Solve quadratic inequalities. Proportion - Solve problems using unitary method of proportion-Best buy and rates of pay. - Repeated proportional change- using multipliers (single decimal number). - Compound interest and depreciation	- Use formal geometric proof for the similarity of two given triangles. - Understand and use SSS, SAS, ASA and RHS to proof congruency. - Geometric proof for congruency of 2 triangles. - Solve angle problems by first proving congruence. Trigonometric Functions - Recognise and sketch trigonometric function graphs. - Know and use exact values of trigonometric functions at $x = 0, 30, 45, 60$ and 90 and find them from graphs. - Solve trigonometric equations using graphs.
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Key Assessment Plans:	
Term 1	HT1: Wk 3 – T1 Assessment : Wk 4-Reports : Wk 7-Subject evening HT2: Wk 5, 6, 7 –Mock exams
Term 2	HT3: Wk 2 – Reports : Wk 4- Subject evening : Wk 6 -Subject evening HT4: Wk 1-T2 Assessment
Term 3	HT5: Wk 1 & 2 - T3 Assessment

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Year group	11
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Rationale for sequencing	HT1 - Recap of expanding triple brackets prior to sketching cubic graphs.
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Term 1	
Half term	Half term
Circle theorems - Recap parts of circles - Use and prove all circle theorems Data collection  - Sampling methods - Stratified random sampling calculations - Identifying bias in samples Sketching Graphs - Recap sketching quadratics - Identifying roots, turning points and intercepts from graph - Recap expanding triple brackets - Sketch cubic graphs - Solve simultaneous equations graphically - Solve quadratic inequalities graphically - Solve linear inequalities and sets of inequalities graphically	Vectors - Represent vectors pictorially, in column notation and algebraic terms - Geometric problems with vectors - Vector proofs involving ratios and resultant vectors - Calculate the length of a vector using Pythagoras Theorem - Geometric proofs for collinear points and parallel vectors Transformations of Graphs - Interpret and analyze transformations of graphs - Apply a transformation to a linear, quadratic, cubic and trig function - Use function notation to write a transformation shown in a graph Algebraic Fractions - Recap simplifying algebraic fractions - Four operations with algebraic fractions - Recap rationalising the denominator involving surds - Solve quadratic equations arising from algebraic fractions Rearranging Formulae - Recap changing the subject of a formula where it appears on one side of the formula - Rearrange formula when the subject appears on both sides - Rearrange formula with fractions, indices and roots

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Term 2	
Half term	Half term
Equations in circles - Find tangent to a circle - Recognise and construct graphs of circle Non linear graphs  - Recognise/interpret/sketch - Reciprocal & exponential - Explore growth and decay *calculators - Trapezium method to estimate area under a graph - Interpreting & estimating gradient - Application to distance/velocity/time - Using gradient of chord to estimate speed or acceleration - Financial contexts & filling/emptying containers - Unit price graphs Direct and Inverse Proportion - Recognise direct & indirect proportion - Use ratios and table of values to identify direct proportion - Recognise relationships involving x^2, x^3, and other powers - Solving (worded) problems by: using $y=kx$, setting up equations & using graphs. (Including when $y=1/x^2$) Iteration - With simple converging sequences Inverse and composite functions - Interpreting expressions as functions with inputs and outputs - Use formal function notation	Proof - Proving results for whole numbers - Congruent triangle proofs - Vector proof - Circle theorem proofs. - Trig value exact value proofs Recap and Practice

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Term 3	
Half term	Half Term
Recap and Practice Study Leave	Study Leave

Key Assessment Plans:	
Term 1	HT1: Wk 4 – T1 Assessment : Wk 5 – Reports : Wk 6 – Subject Evening HT2: Wk 6&7 – Mock Exams
Term 2	HT3: Wk 1 – Reports : Wk 4 – Subject Evening HT4: Wk 2&4 – T3 Assessment : Wk 5 – Data Drop
Term 3	GCSE Examinations 2024 Thursday 16 th May morning Paper 1 Monday 3 rd June morning Paper 2 Monday 10 th June morning Paper 3

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Year group	12
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Rationale for sequencing	There are few degrees of freedom as regards sequencing as the subject is constantly building upon itself. In Pure Mathematics the first topics are consolidation of some of the more advanced GCSE topics in preparation for differentiation and more advanced trigonometry. In Mechanics consolidation of ideas from GCSE Physics is essential before applying Mathematical ideas. In Statistics, a greater rigor is brought to ideas first encountered at GCSE.
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Term 1	
Half term	Half term
Pure - Algebra and Functions Applied (Statistics) - Large data set  - Sampling - Calculations and Presentation of Single Variable Data	Pure - Coordinate Geometry - The Binomial Expansion Applied (Mechanics) - Modelling - Force - Vectors - Kinematics a - Kinematics b
Term 2	
Half term	Half term
Pure - The Factor Theorem - Differentiation Applied (Statistics) - Probability	Pure - More Differentiation - Trigonometry - Radians - Exponentials and Logarithms (questions on population growth and decline)  Applied (Mechanics) - Forces and Newton's 1st Law - Forces and Newton's 2nd Law
Term 3	
Half term	Half Term

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Pure • Integration Applied (Statistics) • The Binomial Distribution • Hypothesis Testing 	Pure • Algebraic Fractions • Functions Applied (Mechanics) • Kinematics with variable acceleration • Moments
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Key Assessment Plans:	Do please note, all previous experience tells us that it is the students who concentrate on mastering the content of the last lesson that succeed in the subject and that it is the students who think only about the next test that underachieve. Long term success in Mathematics is achieved by those who follow up every lesson with a reasonable amount of practice. Long term underachievement is the domain of those who think they only need to work in preparation for the next test.
Term 1	End of October: Pure and Applied, everything to date. Teachers to advise. Dec/Jan: Depending on year 11 mock exams and exam hall availability
Term 2	February: Pure and Applied; everything to date After Easter break: Pure and Applied; everything to date.
Term 3	Second half of June: End of Year Examination Covering everything you have studied so far and much the biggest contributing factor to deciding your predicted grade.

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Year group	13
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Rationale for sequencing	
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Term 1	
Half term	Half term
Pure - Trigonometry Applied (Statistics) - Correlation and Regression Applied (Mechanics) - Forces at an angle	Pure - Differentiation - Chain Rule; Product Rule; Quotient Rule - Implicit - Related rates of change - Series and Sequences - Sigma notation - Arithmetic Series - Geometric series Applied (Statistics) - The Normal Distribution part 1 Applied (Mechanics) - Applications of Kinematics
Term 2	
Half term	Half term
- Binomial Theorem - Parametric equations - Integration Part a - Reverse of differentiation - Reverse chain rule - Rational Functions - Using Trig Identities Applied (Statistics) - Normal Distribution Part 2	Pure - Integration part b - By parts - By substitution (Parametrics) - Trapezium Rule - Differential Equations. - Numerical methods Applied (Statistics) - Normal Distribution Part 3 Applied (Mechanics)

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Applied (Mechanics)	Further Kinematics
Application of Forces	
Term 3	
Half term	Half Term
Pure Vectors 3D Practice and preparation	Study Leave

Key Assessment Plans:	
Term 1	- September Pure and Applied, covering <u>all of</u> Year 12. - November Pure and Applied covering everything up to present with emphasis on Year 13 so far
Term 2	Mock Exams, Pure and Applied, end of Feb, beginning of March
Term 3	Class tests only. A Level Examinations 2024 Tuesday 4 th June Paper 1 – Pure Mathematics Tuesday 11 th June Paper 2 – Pure Mathematics Thursday 20 th June Paper 3 – Statistics and Mechanics

Through education, we have the privilege of engaging directly with children and young people who:

- are passionate about the natural world
- want to do their best to protect it
- can influence their wider communities

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- nature

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- the causes and impacts of climate change
- careers in the green economy
- the importance of sustainability