Maths Curriculum Map Overview

Please note further information can be found in the mathematics curriculum sequencing document

DEYES HIGH SCHOOL
LYDIATE LEARNING TRUST

Key Stage 3

KS3 Year 7	Autumn Term			Spring Term			Summer Term		
Topic/content	Students will be taught a sequence of lessons focusing on: • Forming Expressions • Substitution • Sequences	Students will be taught a sequence of lessons focusing on: • Directed number	Students will be taught a sequence of lessons focusing on: • Powers of ten • Standard form • Estimation	Students will be taught a sequence of lessons focusing on: • Calculations in context • Decimal arithmetic • Order of Operations • FDPR	Students will be taught a sequence of lessons focusing on: • Solving one step equations • Solving two step equations	Students will be taught a sequence of lessons focusing on: • Properties of 2D shapes • Angle facts • Angles in polygons • Congruent shapes	Students will be taught a sequence of lessons focusing on: • Linking fractions and ratio notation • Dividing amounts in a ratio • Arithmetic with fractions	Students will be taught a sequence of lessons focusing on: • Exploring properties of factors, multiples and primes; • Conjectures and counter examples	Students will be taught a sequence of lessons focusing on: • Area of 2D shapes; • Surface area of prisms; • Converting units of length, area and volume.

KS3 Year 8	Autumn Term			Spring Term			Summer Term		
Topic/content	Students will be taught a sequence of lessons focusing on: • Index laws • Expanding single brackets • Factorising	Students will be taught a sequence of lessons focusing on: • Percentage of amounts • Percentage increase and decrease • Simple interest	Students will be taught a sequence of lessons focusing on: • Angles on parallel lines • Multi-step angle problems	Students will be taught a sequence of lessons focusing on: • Currency conversions; • Converting units of measure; • Compound measures; • Solving problems involving scale.	Students will be taught a sequence of lessons focusing on: • Real life graphs; • Distance-time graphs; • Plotting linear and quadratic graphs	Students will be taught a sequence of lessons focusing on: • Solving equations Regions.	Students will be taught a sequence of lessons focusing on: • Isometric drawing; • Plans and elevations; • Scale drawings and enlargement;	Students will be taught a sequence of lessons focusing on: • Volume of prisms • Area and circumference of circles • Volume and surface area of cylinders.	Students will be taught a sequence of lessons focusing on: • Averages and measures of spread. • Draw and interpret bar charts, pie charts and line graphs.

KS3 Year 9	Autumn Term			Spring Term			Summer Term		
Topic/content	Students will be taught a sequence of lessons focusing on: • Listing outcomes • Calculating probabilities. • Venn Diagrams	Students will be taught a sequence of lessons focusing on: • Expand, simplify and factorise expressions • Form and solve equations • Rearrange formulae • Sequences	Students will be taught a sequence of lessons focusing on • Pythagoras' theorem	Students will be taught a sequence of lessons focusing on: • Repeated percentage changes; • Compound interest and depreciation; • Reverse percentages	Students will be taught a sequence of lessons focusing on: • Negative and fractional index laws • Calculations with standard form • Surds	Students will be taught a sequence of lessons focusing on • Trigonometry • Transformations • Enlargement and Similarity • Vector Calculations	Students will be taught a sequence of lessons focusing on: • Speed, distance, time • Density, mass, volume • Pressure	Students will be taught a sequence of lessons focusing on: • Equation of a straight line • Equation given point	Students will be taught a sequence of lessons focusing on • Constructions • Loci

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Key Stage 4

KS4 Year 10	Autumn Term			Spring Term			Summer Term		
Topic/content	Students will be taught a sequence of lessons focusing on: • Rounding • Estimation • Error intervals • Upper and lower bounds; Related calculations	Students will be taught a sequence of lessons focusing on: • Averages from tables • Represent and interpret data	Students will be taught a sequence of lessons focusing on: • Factorising quadratics; • Solve quadratics • Algebraic Fractions	Students will be taught a sequence of lessons focusing on: • Product rule for counting; • Probability trees • Two way tables • Venn diagrams	Students will be taught a sequence of lessons focusing on: • Simultaneous equations • Direct and Inverse proportion	Students will be taught a sequence of lessons focusing on: • Area of triangles using sine rule; • Sine Rule • Cosine Rule	Students will be taught a sequence of lessons focusing on: • Plot graphs • Equation of a line • Solve linear simultaneous equations graphically; Equation of parallel and perpendicular lines • Plot non linear graphs • Circle geometry.	Students will be taught a sequence of lessons focusing on: • Area of circles and sectors; • Calculating arc lengths; • Area of segments; Volume and surface area of cylinders and spheres.	Students will be taught a sequence of lessons focusing on: • Volume and surface area of prisms, pyramids and cones • Volume of a frustrum.

KS4 Year 11	Autumn Term			Spring Term			Summer Term		
Topic/content	Students will be taught a sequence of lessons focusing on: • Fractions, decimals, percentage and ratio • Recurring decimals; • Algebraic fractions	Students will be taught a sequence of lessons focusing on: • Circle Theorems	Students will be taught a sequence of lessons focusing on: • Vectors; • Similar shapes • Area and volume of similar shapes • Congruency	Students will be taught a sequence of lessons focusing on: • Forming and solving equations • Rearranging formulae • Algebraic proof; • Functions • Iterative processes	Students will be taught a sequence of lessons focusing on: • Inequalities as regions on graphs • Solving quadratic inequalities • Quadratic sequences	Students will be taught a sequence of lessons focusing on: • Key revision pieces identified by class analysis tools.	Guided practice and consolidation of content	Guided practice and consolidation of content	

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Key Stage 5

KS5 Year 12	Half term 1 Autumn 1	Half term 2 Autumn 2	Half term 3 Spring 1	Half term 4 Spring 2	Half term 5 Summer 1	Half term 6 Summer 2
Topic/content	Students will be taught a sequence of lessons focusing on: • Proof • Surds and Indices • Quadratic Functions • Equations and Inequalities • Coordinate Geometry	Students will be taught a sequence of lessons focusing on: • Trigonometry • Polynomials • Graphs and transformations • The Binomial Expansion	Students will be taught a sequence of lessons focusing on: • Differentiation • Integration • Exponentials and Logarithms	Students will be taught a sequence of lessons focusing on: • Data collection • Data processing, presentation, interpretation • Probability • Vectors • Kinematics	Students will be taught a sequence of lessons focusing on: • The binomial distribution • Hypothesis testing with the binomial • Forces and Newton's laws of motion • Variable Acceleration	Guided practice and consolidation of content

KS5 Year 13	Half term 1 Autumn 1	Half term 2 Autumn 2	Half term 3 Spring 1	Half term 4 Spring 2	Half term 5 Summer 1	Half term 6 Summer 2
Topic/content	Students will be taught a sequence of lessons focusing on: • Proof • Trigonometry • Sequences and Series • Functions • Differentiation	Students will be taught a sequence of lessons focusing on: • Trigonometric functions • Further Algebra • Trigonometric Identities • Further differentiation • Integration	Students will be taught a sequence of lessons focusing on: • Parametric equations • Differential equations • Numerical Methods • Vectors	Students will be taught a sequence of lessons focusing on: • Probability • Statistical distributions • Hypothesis testing • Kinematics • Forces and motion • Moments • Projectiles • Friction	Guided practice and consolidation of content	