Mathematics Curriculum Journey Map

Year 13

- Functions
- Further differentiation
- Trigonometry & modelling
- Normal distribution
- Hypothesis testing

- PPEs
- Parametric equations
- Vectors
- Numerical methods
- Moments
- Projectiles
- Forces & Friction
- Kinematics

- Revision
- Exam practice
- A Level time

Year 12

- Integration
- Exponentials
- Functions
- Variable acceleration
- Algebraic methods

- Trigonometric ratios
- Vectors
- Differentiation
- Modelling in mechanics
- Forces
- PPEs

- Equations & Inequalities
- Graphs & Transformations
- Straight line graphs
- Correlation
- Measures of spread

Year 11

- Changing the base of powers
- Equation of a circle
- Circle theorems with trigonometry
- Exam practice
- PPEs

- Combining Pythagoras and Trigonometry
- Trigonometric graphs
- Further exam practice

- Density ratio problems
- Pressure, force, area
- GCSE time

Year 10

- Worded bounds problems
- Shading regions
- Nonlinear simultaneous equations
- Algebraic proof
- Vector algebra
- Spheres & Frustums

- Iteration
- Histograms
- Function notation
- Proof of congruency
- 3D Pythagoras and Trigonometry
- Sine & Cosine rules

- Completing the square
- Trinomials
- Circle theorem proof
- Rationalising the denominator
- Compound interest
- Perpendicular lines

Year 9

- Simultaneous equations
- Reciprocals
- Recurring decimals
- Surds
- Circle theorems
- Standard form
- Interest
- Algebraic fractions
- Fibonacci

- Quartiles
- Cumulative frequency
- Similar shapes
- Bounds
- Venn Diagrams
- y=mx+c
- Box Plots
- SoHCaHToA

- Proportion
- Loci
- Combined transformations
- Graphical inequalities
- Speed time graphs
- Cylinders, pyramids, cones

Year 8

- Gradient & y-intercept
- Loci
- SDT from graphs
- Frequency polygons
- Direct proportion
- Cylinders
- Invariant points

- Pythagoras
- Quadratic sequences
- Ratio problems
- Bounds
- Percentage change
- Tree diagrams

- Decimal & fraction calculations
- Angles in shapes
- Inequalities
- HCF & LCM
- Index laws (basic)
- Similar shapes
- Grouped averages

Year 7

- Number properties
- Fractions
- Lines and angles
- Analysing data
- Powers
- Shape properties
- Equations (basic)
- Factors

- Perimeter & area including circles
- Sequences
- Decimals & Percentages
- Estimating
- Probability

- Coordinates
- Transformations
- Constructions
- Representing data
- Ratio
- Real life graphs
- 3D Shapes