The Maths Learning Journey for students

YEAR 13 (Further Maths)

- Pure Mathematics: Proof, Algebra, Functions, Graphs, Trigonometry, Parametric Equations, Calculus, Vectors
- Pure Core: Calculus, Proof, Algebra, Series, Polar coordinates
- Major Option: Mechanics major, Statistics major
- Mechanics: Kinematics, Force & motion, Moments, Friction
- Statistics: Distributions, Hypothesis testing
- Minor Option: Mechanics minor, Statistics minor, Modelling with algorithms, Numerical Methods, Extra pure, Further pure with technology
- Revision
- A Level Exams

YEAR 13 (Maths)

- Optional Units (any 2): Mechanics a, Statistics a, Modelling with Algorithms, Numerical Methods, Mechanics b, Statistics b
- Pure Core: Proof, Complex numbers, Matrices, Vectors & 3D space, Algebra, Series
- Statistics: Sampling, Distribution, Hypothesis testing
- Mechanics: Kinematics, Projectiles, Forces, Newtons laws, Rigid bodies
- Pure Mathematics: Proof, Algebra, Functions, Graphs, Trigonometry, Logarithms, Calculus, Vectors

YEAR 12 (Further Maths / Maths)

- GCSE Exams
- Revision
- Mock
- More Algebra: Reciprocal and exponential graphs, under graphs, direct & inverse proportion
- Proportion & Graphs: Equations, Graphs of cubics, functions, Simultaneous equations & reciprocal
- Congruence, Similarity & Vectors: Similarity & congruence in 2D, Vectors
- Mock
- Vectors & Geometric Proof
- Fraction, Indices & Standard Form: Fractions, Reciprocals, Indices, Standard Form
- More Algebra: Changing subject, Algebraic fractions, Equations, Rationalising, Proof
- Perimeter, Area & Volume: Circles, cylinders, cones & spheres
- Circle Theorems: Circle theorems, Circle geometry
- Quadratic Equations & Graphs: Expanding, Factorising, Graphs
- Equations & Graphs: Quadratics, Expanding more than two brackets, Sketching, Graphs of circles, cubes & quadratics
- Constructions, Loci and Bearings: Plans, Elevations, Constructions, Loci & Bearings

YEAR 11 (Foundation / Higher)

QED

YEAR 10 (Foundation / Higher)

- Test
- Further Statistics: Cumulative frequency, Box plots, Histograms
- More Trigonometry: Graphs, Further trigonometry
- Similarity & Congruence: Similarity & congruence in 2D & 3D
- Test
- Multiplicative Reasoning
- Multiplicative Reasoning
- Probability
- Right-Angled Triangles: Pythagoras, Trigonometry
- Ratio & Proportion
- Probability
- Transformations: Translation, Rotation, Reflection, Enlargement, Combinations
- Graphs: Real-life graphs, Straight-line graphs
- Equations & Inequalities: Solving quadratic and simultaneous equations, Inequalities
- Equations Inequalities & Sequences
- Angles & Trigonometry: Polygons, Angles, Parallel lines, Pythagoras' theorem & trigonometry
- Test
- Angles: Shapes, Parallel lines, Angle facts, Polygons
- Perimeter, Area & Volume: Perimeter & Area, 3D forms & Volume
- Mock
- Graphs: Basics, Real-life, Linear, Quadratic, Cubic, Other
- Transformations & Constructions: Transformations, Constructions, Loci & Bearings
- Averages & Range: Statistics, Averages
- Area & Volume: Perimeter, Area, Circles, 3D forms, Accuracy & bounds

YEAR 9 (Higher / Foundation)

- Fractions, Fractions & Percentages: Fractions, Fractions, decimals & percentages, Percentages
- Fractions, Ratio & Proportion: Fractions, Percentages, Ratio & proportion
- Interpreting & Representing Data: Averages & range, Representing and interpreting data, Scatter graphs
- Test
- Graphs, Tables & Charts: Tables, Charts & graphs, Pie charts, Scatter graphs
- Algebra: Algebra: the basics, Setting up, rearranging & solving equations, Sequences
- Algebra: Algebra: the basics, Expanding & factorising single brackets, Expressions & Substitution
- Number: Indices, Roots, Reciprocals, Factors, Multiples, Primes, Standard form, Surds
- Number: Integers, Place Value, Decimals, Indices, Powers, Roots, Factors, Multiples, Primes
- Test
- Reasoning With Data: Displaying data, Measures of location

YEAR 8

- Proportional Reasoning: Ratio, Scale, Multiplicative change, Multiply & divide fractions
- Representations: Cartesian plane, Collect & represent data, Tables
- Algebraic Techniques: Brackets, equations & inequalities, Sequences, Indices
- Test
- Developing Number: Fractions & percentages, Standard form, Number sense
- Developing Geometry: Parallel lines & polygons, Area of trapezia & circles, Transformations
- Reasoning With Number: Number sense, Sets, Probability, Primes
- Test

YEAR 7

- Lines & Angles: Construct, Measure, Geometric notation, Geometric reasoning
- Direction & Fractions: Negatives, Add & subtract fractions
- Test
- Applications of Number: Add, Subtract, Multiply, Divide, Fractions & percentages of amounts
- Place Value & Proportion: Place value, Ordering, Fractions, Decimals, Percentages
- Algebraic Thinking: Sequences, Algebra, Equations

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welcome