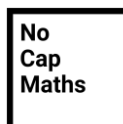


**Detailed Course Outline for  
Regular Course for  
Edexcel IGCSE Maths Specification A (4MA1) Exam**

Last Updated: 4 May 2026

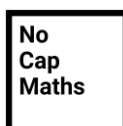
**1<sup>st</sup> Half of Course**

- 1 Expanding
- 2 Factorising
- 3 Linear Equations and Algebraic Fractions
- 4 Ratio and Proportion
- 5 Surds
- 6 Quadratic Equations and Algebraic Fractions
- 7 Simplifying Algebraic Fractions
- 8 Changing the Subject
- 9 Simultaneous Equations
  - Linear Simultaneous Equations
  - Nonlinear Simultaneous Equations
- 10 Laws of Indices
- 11 Direct and Inverse Proportion
- 12 Standard Form
- 13 Integers
  - Product of Prime Factors
  - HCF and LCM
- 14 Substitution
- 15 Fractions and Decimals
  - Converting Non-Terminating Decimals to Fractions
- 16 Sequences
- 17 Angles, Lines and Triangles
- 18 Pythagoras Theorem in 2D
- 19 Trigonometry in 2D
- 20 Polygons
- 21 Mensuration of 2D Shapes
  - Mensuration of Rectilinear 2D Shapes
  - Mensuration of Circle and Sector
- 22 Mensuration of 3D Shapes
  - Surface Area of 3D Shapes
  - Volume of 3D Shapes
- 23 Similarity
- 24 Symmetry and Measures
  - Speed Conversion
  - Distance, Speed and Time
  - Density Formula
  - Density Formula with Volume of 3D Shapes
  - Pressure Formula



## 2<sup>nd</sup> Half of Course

- 25 Circle Theorems
- 26 Sine and Cosine Rules and Sine Area Formula
- 27 Pythagoras Theorem and Trigonometry in 3D
- 28 Functions
  - Domain and Range
  - Function Notation
  - Inverse Functions
  - Composite Functions
  - Function Notation of Composite Functions
  - Inverse Function of Composite Functions
- 29 Completing the Square
- 30 Graph Work
  - Recognising and Plotting Graphs
  - Real-Life Graphs
  - Using Graphs to Find Missing Variables
- 31 Transforming Graphs
- 32 Solving Equations Using Graphs
- 33 Linear Inequalities
  - Solving Linear Inequalities
  - Writing Linear Inequalities
  - Shading Linear Inequalities
- 34 Quadratic Inequalities
- 35 Basic Percentages
  - Percentage of an Amount
  - A as a Percentage of B
  - Percentage Change
  - Percentage Profit
- 36 Advanced Percentages
  - Forward Percentages
  - Forward Percentages with Repeated Percentages
  - Compound Interest
  - Finding Rate in Percentages
  - Reverse Percentages
- 37 Degree of Accuracy
- 38 Equation of a Straight Line
  - Writing Equation of a Straight Line
  - Graphing Equation of a Straight Line
  - Midpoint Formula and Distance Formula
  - Equations of Parallel and Perpendicular Lines
- 39 Transformation Geometry
- 40 Probability
  - Simple Probability
  - Expected Frequency
  - Mutually Exclusive Events
  - Independent Events
  - Dependent Events
  - Probability with Tree Diagrams
  - Probability with Equations



- 41 Trigonometry with Bearings
  - Bearings
- 42 Constructions
- 43 Set Language and Notation
  - Filling Venn Diagrams
  - Shading Venn Diagrams
  - Probability with Venn Diagrams
- 44 Cumulative Frequency Diagrams
  - Constructing Cumulative Frequency Diagrams
  - Interpreting Cumulative Frequency Diagrams
  - Averages and Interquartile Range from Cumulative Frequency Diagrams
- 45 Histograms
  - Constructing Histograms
  - Interpreting Histograms
- 46 Averages and Interquartile Range
  - Averages and Interquartile Range from Lists or Frequency Tables
  - Averages and Interquartile Range from Grouped Data
  - Averages and Interquartile Range from Word Problems
- 47 Vectors
  - Simple Vectors
  - Problem Solving with Vector
  - Proofs with Vectors
- 48 Differentiation
  - Estimating Gradient by Drawing a Tangent
  - Simple Differentiation
  - Differentiating to Find Gradient
  - Differentiating to Find Stationary Points
  - Differentiating to Find Maximum or Minimum
  - Displacement, Velocity and Acceleration
- 49 Proofs

If you have any questions about the course outline, feel free to contact us via our [WhatsApp](#).

