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

Last Updated: 4 May 2026

1st 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

2nd 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**.