

Key Stage 4 Subject Overview: GCSE Mathematics

Exam Board: Edexcel

Subject Code: 1MA1

Exam Paper	Paper 1	Paper 2	Paper 3
Description	Non-Calculator, 1h30, 80 marks	Calculator, 1h30, 80 marks	Calculator, 1h30, 80 marks
Course weighting	33.3%	33.3%	33.3%

Key Stage 4 Timeline

Year 9			Year 10			Year 11	
Autumn	Spring	Summer	Autumn	Spring	Summer	Autumn	Spring
Number	Measure	Constructions and Loci	Transformations	Area and Volume 2	Transformations of Functions	This depends on your mock exam in June of Y10. Your teacher will do a question-level analysis to determine your weaknesses, and plan for the year accordingly.	This depends on your mock exam in November of Y11. Your teacher will do a question-level analysis to determine your weaknesses, and plan for the year accordingly.
Expressions and Sequences	Congruence, Symmetry and Similarity	Linear Equations	Processing, Representing and Interpreting Data	Line Diagrams & Scatter Graphs	Circle Geometry		
Fractions	Expanding Brackets and Factorising	Percentages	Inequalities and Formulae	Indices, Standard Form & Surds	Algebraic Fractions and Algebraic Proof		
Decimals and Estimation	Area and Volume 1	Graphs	Pythagoras' Theorem and Trigonometry 1	Similar Shapes	Vectors		
Angles and Polygons	Averages and Range	Ratio and Proportion	More Graphs and Equations	Proportion 2			
Collecting and Recording Data			Quadratic and Simultaneous Equations	Probability			
				Pythagoras' Theorem and Trigonometry 2			

Assessment Criteria

Grade 8	Grade 5	Grade 2
Perform procedures accurately Interpret and communicate complex information accurately Make deductions and inferences and draw conclusions Construct substantial chains of reasoning, including convincing arguments and formal proofs Generate efficient strategies to solve complex mathematical and non-mathematical problems by translating them into a series of mathematical processes Make and use connections, which may not be immediately obvious, between different parts of mathematics	Perform routine single- and multi-step procedures effectively by recalling, applying and interpreting notation, terminology, facts, definitions and formulae Interpret and communicate information effectively Make deductions, inferences and draw conclusions Construct chains of reasoning, including arguments Generate strategies to solve mathematical and non-mathematical problems by translating them into mathematical processes, realising connections between different parts of mathematics Evaluate methods and results	Recall and use notation, terminology, facts and definitions; perform routine procedures, including some multi-step procedures Interpret and communicate basic information; make deductions and use reasoning to obtain results Solve problems by translating simple mathematical and non-mathematical problems into mathematical processes Provide basic evaluation of methods or results Interpret results in the context of the given problem