Curriculum Overview 2025 - 2026
Mathematics

Stratford upon Avon School & Sixth Form

Exam Board	Exam Specification		Qualification Type
Pearson Edexcel	1MA1	Link to full details	GCSE

Departmental Staff

- Miss Gollop
- Miss Hibbitt
- Mr Horton
- Mr Kerry
- Mr Lister
- Mrs McLeary
- Mrs Muldowney
- Miss Norris
- Mr Pinel
- Mr Williams

Examined by:

x 3

Paper 1	Paper 2	Paper 3
Non-calculator assessment	Calculator allowed	Calculator allowed
1 hour 30 minutes	1 hour 30 minutes	1 hour 30 minutes
33%	33%	33%

Assessment Details, Objectives & Weightings

There are two tiers of entry – the Higher Tier, which is aimed at grades 4 to 9, and the Foundation Tier, which is aimed at grades 1 to 5. The final decision or entry will be made on an individual basis, dependent on progress across Years 10 and 11 and performance in mock exams.

Paper 1 — Use & Apply Standard Techniques

What's Assessed

- accurate recall of facts, terminology & definitions
- correct use and interpretation of notation
- accurate completion of routine tasks or set tasks requiring multi-step solutions

Foundation: 50% **Higher: 40%**

Paper 2 — Reason, Interpret & Communicate Mathematically

What's Assessed

- ability to make deductions, inferences & draw conclusions from mathematical information
- ability to construct chains of reasoning to achieve a given result
- ability to interpret and communicate information correctly
- presentation of arguments and proofs
- ability to assess validity of an argument and critically evaluate a given way of presenting information

Foundation: 25% **Higher: 30%**

Where problems require students to 'use and apply standard techniques' or to independently 'solve problems' a proportion of those marks should be attributed to the corresponding Assessment Objective.

Paper 3 — Solve Problems Within Mathematics & in Other Contexts

What's Assessed

- ability to translate problems in mathematical of non-mathematical contexts into a process or a series of mathematical processes
- ability to make and use connections between different parts of mathematics
- ability to interpret results in the context of a given problem
- ability to evaluate methods used and results obtained
- ability to evaluate solutions to identify how they may have been affected by assumptions made

Foundation: 25% **Higher: 30%**

Progress Leader - rparsons@stratfordschool.co.uk Assistant Progress Leader - ktoth@stratfordschool.co.uk

Links to Explanations, Practice & Revision Resources

Topic	Video Link	Practice Link	Textbook Link
Area under a Graph	Video	Practice	Textbook
Average Rate of Change	Video	Practice	Textbook
Averages - Estimated Mean	Video	Practice	Textbook
Averages - Mean	Video	Practice	Textbook
Averages - Mean Frequency Table	Video	Practice	Textbook
Averages - Median	Video	Practice	Textbook
Averages - Median Frequency Table	Video	Practice	Textbook
Averages - Median Grouped Data	Video	Practice	Textbook
Averages - Mode	Video	Practice	Textbook
Averages - Range	Video	Practice	Textbook
Comparing Box Plots	Video	Practice	Textbook
Compound Interest	Video	Practice	Textbook
Converting Area Units	Video	Practice	Textbook
Converting Volume Units	Video	Practice	Textbook
Cosine Graph	Video	Practice	Textbook
Cosine Rule (Angles)	Video	Practice	Textbook
Cosine Rule (Sides)	Video	Practice	Textbook
Cubic Graphs	Video	Practice	
Density	Video	Practice	Textbook
Direct Proportion	Video	Practice	Textbook
Distance Time Graphs	Video	Practice	Textbook
Draw and Interpret Box Plots	Video	Practice	Textbook
Drawing Cumulative Frequency Graphs	Video	Practice	Textbook
Drawing Graphs using y=mx+c	Video	Practice	Textbook
Drawing Histograms	Video	Practice	Textbook
Drawing Quadratic Graphs	Video	Practice	Textbook
Equations - Cross Multiplication	Video	Practice	Textbook
Equations - Letters Both Sides	Video	Practice	Textbook
Error Intervals	Video		Textbook
Exponential Graphs	Video	Practice	
Factorisation - Difference of 2 Squares	Video	Practice	Textbook
Factorisation - Quadratics	Video	Practice	Textbook
Factorisation - Quadratics Harder	Video	Practice	Textbook
Gradient between Two Points	Video	Practice	Textbook
Gradient of a Line	Video	Practice	Textbook
Harder Histograms	Video	Practice	Textbook
Increasing and Decreasing Percentages	Video	Practice	Textbook

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Links to Explanations, Practice & Revision Resources Continued

Topic	Video Link	Practice Link	Textbook Link
Inequalities on a Number Line	Video	Practice	Textbook
Instantaneous Rate of Change	Video	Practice	Textbook
Interpreting Conversion Graphs	Video	Practice	Textbook
Interpreting Histograms	Video		Textbook
Inverse Proportion	Video	Practice	Textbook
Length of a Line	Video	Practice	Textbook
Line Graphs	Video	Practice	Textbook
Linear Graphs - Equation through 2 Points	Video	Practice	Textbook
Linear Graphs - Find Equation of a Line	Video	Practice	Textbook
Linear Graphs - Parallel Lines	Video	Practice	Textbook
Linear Graphs - Perpendicular Lines	Video	Practice	Textbook
Metric to Imperial Units (Capacity)	Video	Practice	
Metric to Imperial Units (Length)	Video	Practice	
Metric to Imperial Units (Mass)	Video	Practice	
Metric Units - Capacity	Video	Practice	
Metric Units - Length	Video	Practice	Textbook
Metric Units - Mass	Video	Practice	Textbook
Midpoint of a Line	Video	Practice	Textbook
nth Term of a Sequence	Video	Practice	Textbook
Pattern Sequences	Video	Practice	Textbook
Percentages - Multipliers	Video	Practice	Textbook
Pressure	Video	Practice	Textbook
Proportion - Recipes	Video	Practice	Textbook
3D Pythagoras	Video	Practice	Textbook
Pythagoras	Video	Practice	Textbook
Pythagoras - Distance Between Two Points	Video	Practice	Textbook
Pythagoras - Rectangles, Isosceles Triangles	Video	Practice	Textbook
Pythagoras - Show a Triangle is Right Angled	Video	Practice	Textbook
Quadratic Formula	Video	Practice	Textbook
Quadratic Formula Proof	Video	Practice	Textbook
Quadratic Graphs - Sketching using Key Points	Video		Textbook
Random Sampling	Video		Textbook
Reading Cumulative Frequency Graphs	Video	Practice	Textbook
Reciprocal Graphs	Video	Practice	
Sequences - Describing Rules	Video	Practice	Textbook
Simultaneous Equations - Advanced	Video	Practice	Textbook
Simultaneous Equations (Elimination Method)	Video	Practice	Textbook

Links to Explanations, Practice & Revision Resources Continued

Topic	Video Link	Practice Link	Textbook Link
Simultaneous Equations (Substitution Method)	Video	Practice	
Sine Graph	Video	Practice	Textbook
Sine Rule (Ambiguous Case)	Video		Textbook
Sine Rule (Angles)	Video	Practice	Textbook
Sine Rule (Sides)	Video	Practice	Textbook
Solving Inequalities (One Sign)	Video	Practice	Textbook
Solving Inequalities (Two Signs)	Video	Practice	Textbook
Solving Quadratics (Completing the Square)	Video	Practice	Textbook
Solving Quadratics (Factorising)	Video	Practice	Textbook
Solving Quadratics Graphically	Video		Textbook
Speed, Distance and Time	Video	Practice	Textbook
Stratified Sampling	Video	Practice	Textbook
Tangent Graph	Video	Practice	Textbook
3D Trigonometry	Video	Practice	Textbook
Transformation of Trigonometric Graphs		Practice	
Trigonometry - Area of a Triangle	Video	Practice	Textbook
Trigonometry - Introduction	Video	Practice	Textbook
Trigonometry - Missing Angles	Video	Practice	Textbook
Trigonometry - Missing Sides	Video	Practice	Textbook
Volume - Cone	Video	Practice	Textbook
Volume - Cube Cuboid	Video	Practice	Textbook
Volume - Cylinder	Video	Practice	Textbook
Volume - Frustrum	Video		
Volume - L-Shape Prism	Video	Practice	Textbook
Volume - Prism	Video	Practice	Textbook
Volume - Pyramid	Video	Practice	Textbook
x=a Graphs	Video	Practice	Textbook
y = mx + c	Video	Practice	Textbook
y=a Graphs	Video	Practice	Textbook