This guide is for students, parents and carers. It outlines: Information about the GCSE course; the topics on each examination paper and where students can find revision resources; and ends with examination tips specific to this subject.

Course Title and Exam Board

Exam board	Edexcel
Course title	Mathematics
Course	3 x 90 minute papers
structure and	1 Non calculator
assessment	2 calculator

GCSE Examinations

Paper	Marks	Duration	Topics on this paper
Paper 1 – Non Calculator	80	90mins	 Number Algebra Geometry and Measure Statistics Probability Ratio and proportion
Paper 2 – Calculator	80	90mins	 Number Algebra Geometry and Measure Statistics Probability Ratio and proportion
Paper 3 – Calculator	80	90mins	 Number Algebra Geometry and Measure Statistics Probability Ratio and proportion

Three Examination Tips Specific to this Subject

See in the school's public area - student area – REVISION - Maths folders for Maths maps, Flash cards, Question cards, Model answers and Past Papers

Where are the revision resources?

All revision resources for all maths exam papers are stored in the school's public drive area: P:\Students\REVISION\Maths\Foundation *or* Higher

- Exam Paper and Model Answers
- Knowledge for All Exam Papers
- Online Resources
- Quizzes Questions and Resources

Or, use Heggarty Maths, see below:

	Heggarty Maths	
Foundation Tier Exam paper	Clip Number	Tick
3D shapes	829	
3D shapes (faces, edges, vertices)	830	
Add or subtract fractions	65	
Adding fractions	66	
Addition and subtraction with decimals	47	
Angle problem solving, properties of a kite	477, 560, 824	
Area and perimeter of a square	554	
Area of a circle problem solving	542	
Area of a trapezium, money (problem solving)	559, 754	
Area problem solving	557, 556	
Bar charts, mean from frequency tables	425, 418	
Bar charts, one number as a percentage of another	425, 62, 76	
Best buys, percentage increase and decrease	771, 90	
Calculate probability from a frequency tree	368	
Calculating probability from a Venn diagram	374, 375, 384	
Calculating values from tariff graphs		
Change from ordinary to standard form	122	
Change from standard form to an ordinary number	123	
Change the subject of a formula (2-step)	281	
Collecting like terms	156	
Compare decimal numbers	46	
Compare fractions	60	
Compare quantities using ratio	328	
Compare quantities using ratio, simplifly ratios	328, 329	
Complete a frequency tree	368	
Complex calculations using a calculator	129	
Compound interest	94	
Congruence	680	
Convert decimals to fractions	52	

Convert percentages to fractions	82
Convert simple decimals to percentages	55
Converting length	692
Converting length word problems	694
Converting mass	695
Cubing a number	100
Decimal problem solving	51
Describing transformations	652
Displaying sets in Venn diagrams	373
Drawing line graphs from coordinates	205
Drawing pie charts	427
Drawing quadratic graphs from a table	251
Equivalent fractions	59
Estimation	131
Expand double brackets	164
Expectation	355
Express a probability in numbers	350
Factorise quadratic expressions	223
Factorise simple expressions	169
Factors of a number	27
Find percentages of amounts	87
Find the x-intercept (roots) of a quadratic graph	253
Fractions of an amount	77
Fractions of an amount, fraction problem solving	77, 80
Gradient, solve 2-step equations	201, 181
Independent events and probability trees	361
Index form (multiplying and dividing)	106
Integer solutions to inequalities	267
Interior angles in polygons problem solving	564
Inverse proportion	342
Linear and geometric sequences (term-to-term rule)	197, 264
Linear sequences (nth term)	198
Money problem solving	753
Money problems	747
Multiples of a number	33
Mutually exclusive events	354
Order of operations	24
Percentage change	97
Percentage decrease	90
Percentage increase	90
Percentage of an amount, percentage increase	84, 88
Percentage problem solving	98
Perimeter and algebra	552
Pictograms	426

Plotting points	199
Prime numbers	28
Probability of more than one event	358
Probability of single events	351
Quadrilaterals	824
Ratio problem solving	335
Read and write positive integers	13
Reading coordinates	199
Reflections	639
Representing inequalities on a number line	265
Rotate a shape	649
Round numbers to the nearest 1000	17
Round to significant figures	130
Scale diagrams	865
Scatter diagrams	453, 454
Sharing in a given ratio, right-angle trigonometry	332, 510
Similar polygons	608
Simple interest	93
Simplifying expressions involving multiplication	158
Solve 2-step equations (involving multiplication)	179
Solve single linear inequalities	269
Solving simultaneous equations	193
Speed	717, 721
Speed, estimating calculations	721, 131
Square and cube roots	101
Square numbers, odd numbers	99, 25
Square root of a decimal	101
Standard form calculations	126, 127, 128
Substitution	781
Substitution (equations of motion)	788
Tariff graphs	
Use angle facts to solve problems	477, 481, 485

Higher Tier Exam paper	Clip Number	Tick
3D trigonometry	856	
Algebraic inverse proportion	346	
Area of a circle problem solving	542	
Area of a trapezium, money (problem solving)	559, 754	
Bar charts, mean from frequency tables	425, 418	
Bar charts, one number as a percentage of another	425, 62, 76	
Best buys with percentages	771	
Box plots from cumulative frequency diagrams	440	
Brackets involving surds, rationalising surds	116, 119	
Calculating probability from a Venn diagram	374, 375, 384	
Calculations with bounds	139	
Change from ordinary to standard form	122	
Change the subject of a formula (2-step)	281	
Circle theorems (multi-step problems)	606	
Circumference, area of a triangle, Pythagoras theorem	499, 535, 557	
Combined transformations	657	
Combined transformations, invariance	656, 655	
Comparing distributions using box plots	436	
Complex calculations using a calculator	129	
Composite functions	294	
Composite functions	293	
Compound interest	94	
Conditional probability with algebra	367	
Convert recurring decimals to fractions	54	
Describing transformations (enlargements)	651	
Direct algebraic proof	325, 327	
Displaying sets in Venn diagrams	373	
Draw a histogram	446	
Drawing quadratic graphs from a table	251	
Equation of a circle	314, 778	
Error intervals	774	
Estimate the median from a histogram	447	
Estimation	131	
Expand triple brackets	166	
Exponential equations, substitution	796, 797, 786	
Exponential growth graphs	800	
Factorise quadratic expressions	226, 224	
Find perimeter using arc length and sine rule	522, 545	
Find the turning point of a quadratic graph	255	
Find the x-intercept (roots) of a quadratic graph	253	
Frequency polygons	441	

Function notation	288
Gradient, solve 2-step equations	201, 181
Graph transformations f(-x)/y-axis	312
Graph transformations f(x±a)	308
HCF, volume of a cube and cuboid	31, 568
Independent events and probability trees	361
Index form (combination of rules)	110
Index form (multiplying and dividing)	106
Indices with algebraic expressions, exponential equations	174, 796
Interpreting box plots	436
Inverse functions	295
Inverse proportion	342
Non-calculator trigonometry	848
Non-calculator trigonometry (exact values)	845
Percentage change	97
Percentage of an amount, percentage increase	84, 88
Probability of single events	352
Product rule for counting	671
Proof using circle theorems and angle facts	477, 593, 597
Ratio problem solving, simultaneous equations	336, 191, 329
Ratio, percentage profit problem solving	332, 760
Round to significant figures	130
Scatter diagrams	453, 454
Sequences from recurrence relations	262
Sharing in a given ratio, right-angle trigonometry	332, 510
Simplify algebraic fractions involving quadratics	229
Simultaneous equations (one linear, one non-linear)	318, 319
Solve double quadratic inequalities	272, 277
Solve using the quadratic formula, round to SF	242, 130
Solving quadratic equations	233
Solving simultaneous equations	193
Speed	717, 721
Speed, estimating calculations	721, 131
Standard form calculations, rounding (significant figures)	126, 127, 130
Straight line graphs, simultaneous equations	211, 213, 191, 194
Substitution (equations of motion)	788
Tangent graphs	305
Use angle facts to solve problems	477, 481, 485
Vectors (geometry problems)	636
Volume of similar shapes and ratio	621
Volume, similar shapes, average density	578, 580, 618, 730
Write algebraic fractions as a single fraction	224