

Welcome to Maths

Steps to Success evening

Three mock exam papers

Paper	Length	Date / Time
1 (non calculator)	1hr 30m	Monday 1 st Dec pm
2 (calculator)		Wednesday 3 rd Dec am
3 (calculator)		Monday 8 th Dec am
Further Maths	1hr 45mins	Friday 12 Dec am

Three exam papers

Paper	Length	Date / Time
1 (non calculator)	1hr 30m	Thursday 14 th May am
2 (calculator)		Wednesday 3 th June am
3 (calculator)		Wednesday 10 th June am
Further Maths 1 (non-calculator)	1hr 45mins	Monday 8 th June
Further Maths 2 (calculator)		Monday 15 th June

What to expect from the exam papers FOUNDATION

80 marks available on each paper (240 total)

Grade	5	4	3	2	1
June 2025 Scores	188	160	119	79	39
Percentage 2025 grade	78	67	50	33	16

What to expect from the exam papers HIGHER

80 marks available on each paper (240 total)

Grade	9	8	7	6	5	4	3
June 2025 Scores	219	191	164	130	96	63	46
Percentage 2025 grade	91	80	68	54	40	26	19

What to expect from the exam papers L2 Further Maths

80 marks available on each paper (160 total)

Grade	9	8	7	6	5	4
June 2025 Scores	141	127	113	95	78	69
Percentage 2025 grade	88	79	71	59	49	43

What does your child need to do to be successful in Maths?

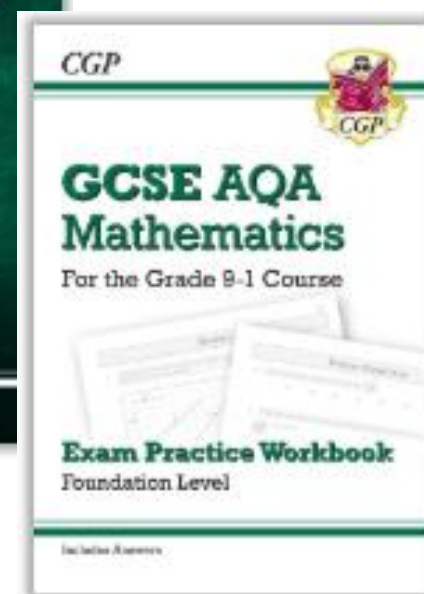
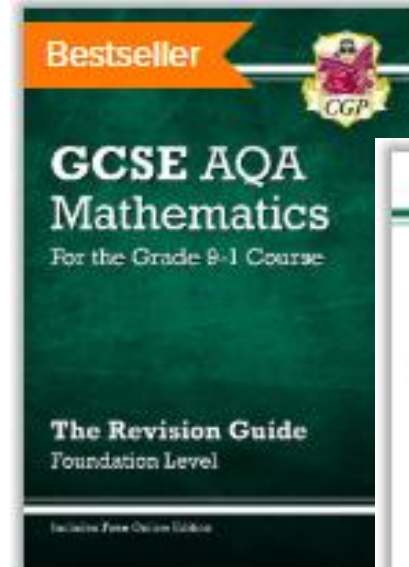
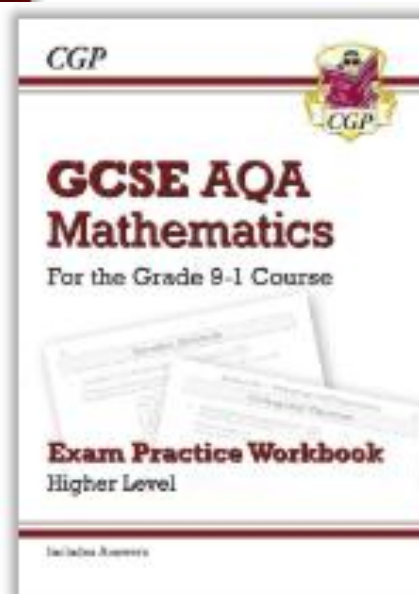
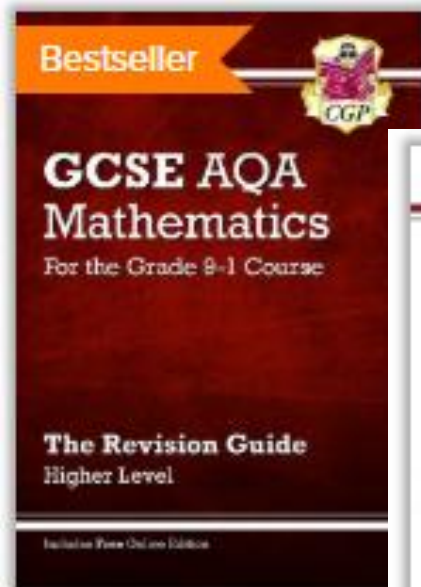
- Attendance is key. Pupils who attend achieve more.
- Pay attention in class. They have 4 hours with a Maths specialist in a week.
- Do as many Maths questions as they can.

What you can do to support maths revision

- Create a schedule of priority revision topics using the MathsWatch or CorbettMaths topic lists as a starting point
- Encourage your child's attendance
- Paper 1 is non-calculator and we see a lot of numeracy errors, keep testing times-tables and adding/subtracting with negatives
- Encourage your child to attend revision sessions (Thursday 3.30 – 4.30)

CGP revision guides and workbooks – available on the Scopay website

Revise a topic at a time



MathsWatch - Revision lessons just a click away ...	
Subject Content	Grade 1
Number	Place Value 1
Algebra	Ordering Integers 2
Ratio, Proportion, Rates of Change	Ordering Decimals 3
Geometry and Measures	Reading Scales 4
Probability and Statistics	Simple Mathematical Notation 5
	Interpreting Real-Life Tables 6
Grades that will be examined:	Introduction to Algebraic Conventions 7
Higher 1 2 3 4 5 6 7 8 9	Coordinates 8
Foundation 1 2 3 4 5	Simple Geometric Definitions 9
	Polygons 10
	Symmetries 11
	Tessellations and Congruent Shapes 12
	Names of Angles 13
	The Probability Scale 14
	Tally Charts and Bar Charts 15
	Pictograms 16
You will find some formulas and information in this insert.	
It will be very helpful to learn it all, off-by-heart for your exam.	
Area of a circle = πr^2	
Circumference of a circle = $2\pi r$	

MathsWatch - Revision lessons just a click away ...	
Grade 4	Grade 5
Index Notation 131	Negative Indices 154
Introduction to Bounds 132	Error Intervals 155
Midpoint of a Line on a Graph 133	Mathematical Reasoning 156
Expanding and Simplifying Brackets 134	Factorising and Solving Quadratics 157
Solving Equations 135	The Difference of Two Squares 158
Rearranging Simple Formulae 136	Finding the Equation of a Straight Line 159
Forming Formulae and Equations 137	Roots and Turning Points of Quadratics 160
Inequalities on a Number Line 138	Cubic and Reciprocal Graphs 161
Solving Linear Inequalities 139	Simultaneous Equations Algebraically 162
Simultaneous Equations Graphically 140	Geometric Progressions 163
Fibonacci Sequences 141	Compound Interest and Depreciation 164
Compound Units 142	Ratio Questions 165
Distance-Time Graphs 143	Congruent Triangles 166
Similar Shapes 144	Sectors of a Circle 167
Constructions Using Compasses 145	Trigonometry 168
Loc, 146	Spheres 169
Drawing a Triangle Using Compasses 147	Pyramids 170
Enlargements 148	Cones 171
Tangents, Arcs, Sectors and Segments 149	Frustums 172
Pythagoras' Theorem 150	Exact Trigonometric Values 173
Simple Tree Diagrams 151	Introduction to Vectors 174
Sampling Populations 152	Harder Tree Diagrams 175
Time Series 153	Stratified Sampling 176
The Laws of Indices	Pythagoras
$x^a \times x^b = x^{a+b}$	$a^2 + b^2 = c^2$
$x^a \div x^b = x^{a-b}$	
$(x^a)^b = x^{ab}$	
$x^{-a} = \frac{1}{x^a}$	
	Trigonometry

MathsWatch - Revision lessons just a click away ...	
mathswatch.co.uk - To exit full screen, press Esc	
Adding Integers and Decimals 17	Properties of Solids 43
Subtracting Integers and Decimals 18	Nets 44
Multiplying Integers 19	Angles on a Line and at a Point 45
Dividing Integers 20	Measuring and Drawing Angles 46
Inverse Operations 21	Drawing a Triangle Using a Protractor 47
Money Questions 22	Reflections 48
Negatives in Real Life 23	Rotations 49
Introduction to Fractions 24	Translations 50
Equivalent Fractions 25	Plans and Elevations 51
Simplifying Fractions 26	Perimeters 52
Half-Way Values 27	Area of a Rectangle 53
Factors, Multiples and Primes 28	Area of a Triangle 54
Introduction to Powers/Indices 29	Area of a Parallelogram 55
Multiply and Divide by Powers of 10 30	Area of a Trapezium 56
Rounding to the Nearest 10, 100 etc 31	Frequency Trees 57
Rounding to Decimal Places 32	Listing Outcomes 58
Simplifying - Addition and Subtraction 33	Calculating Probabilities 59
Simplifying - Multiplication 34	Mutually Exclusive Events 60
Simplifying - Division 35	Two-Way Tables 61
Function Machines 36	Averages and the Range 62
Generating a Sequence - Term to Term 37	Data - Discrete and Continuous 63
Introduction to Ratio 38	Vertical Line Charts 64
Using Ratio for Recipe Questions 39	Frequency Tables and Diagrams 65
Introduction to Percentages 40	
Value for Money 41	
Introduction to Proportion 42	
Prime Numbers	
2, 3, 5, 7, 11, 13, 17, 19, 23, 29, ...	
Each prime number has exactly two factors.	
Area of a triangle = $\frac{b \times h}{2}$	
Area of trapezium = $\frac{1}{2}(a + b)h$	

MathsWatch - Revision lessons just a click away ...	
Grade 6	Grades 8 and 9
Recurring Decimals to Fractions 177	Upper and Lower Bounds 206
Product of Three Binomials 178	Surds 207
Iteration - Trial and Improvement 179	Perpendicular Lines 208
Iterative Processes 180	Completing the Square 209
Enlargement - Negative Scale Factor 181	Algebraic Fractions 210
Combinations of Transformations 182	Simultaneous Eqns with a Quadratic 211
Circle Theorems 183	Solving Quadratic Inequalities 212
Proof of Circle Theorems 184	Finding the n th Term of a Quadratic 213
Probability Using Venn Diagrams 185	Inverse Functions 214
Cumulative Frequency 186	Composite Functions 215
Boxplots 187	Interpreting Graphs 216
Grade 7	Pythagoras in 3D 217
Fractional Indices 188	Trigonometry in 3D 218
Recurring Decimals - Proof 189	Vectors 219
Rearranging Difficult Formulae 190	
Solving Quadratics with the Formula 191	Fractional Indices
Factorising Hard Quadratics 192	$\frac{a}{x^b} = (y/x)^a$
Algebraic Proof 193	Surds
Exponential Functions 194	$\sqrt{a} \times \sqrt{a} = a$
Trigonometric Graphs 195	$\sqrt{a \times b} = \sqrt{a} \times \sqrt{b}$
Transformation of Functions 196	Quadratic Formula
Equation of a Circle 197	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
Regions 198	$\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$
Direct and Inverse Proportion 199	Sine Rule
Advanced Ratio Questions 200	$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$
Similarity - Area and Volume 201	Cosine Rule
Sine and Cosine Rules 202	$a^2 = b^2 + c^2 - 2bc \cos A$
Area of a Triangle Using Sine 203	Histograms
And and Or Probability Questions 204	frequency density
Histograms 205	$\text{frequency} = \text{class width}$

MathsWatch - Revision lessons just a click away ...	
Grade 3	
Multiplying Decimals 66	Sketching Functions 99
Dividing Decimals 67	Solving Equations Using Flowcharts 100
Four Rules of Negatives 68	Subject of a Formula Using Flowcharts 101
Listing Strategies 69	Generate a Sequence from n th Term 102
Comparing Fractions 70	Finding the n th Term 103
Adding and Subtracting Fractions 71	Special Sequences 104
Finding a Fraction of an Amount 72	Exchanging Money 105
Multiplying Fractions 73	Sharing Using Ratio 106
Dividing Fractions 74	Ratios, Fractions and Graphs 107
BODMAS/BIDMAS 75	Increase/Decrease by a Percentage 108
Reciprocals 76	Percentage Change 109
Calculator Questions 77	Reverse Percentage Problems 110
Product of Primes 78	Simple Interest 111
Highest Common Factor (HCF) 79	Metric Conversions 112
Lowest Common Multiple (LCM) 80	Problems on Coordinate Axes 113
Squares, Cubes and Roots 81	Surface Area of a Prism 114
Working with Indices 82	Volume of a Cuboid 115
Standard Form 83	Circle Definitions 116
Decimals and Fractions 84	Area of a Circle 117
Fractions, Percentages, Decimals 85	Circumference of a Circle 118
Percentage of an Amount (Calc.) 86	Volume of a Prism 119
Percentage of an Amount (Non-Calc.) 87	Angles and Parallel Lines 120
Change to a Percentage (Calc.) 88	Angles in a Triangle 121
Change to a Percentage (Non-Calc.) 89	Properties of Special Triangles 122
Rounding to Significant Figures 90	Angle Sum of Polygons 123
Estimating Answers 91	Bearings 124
Using Place Value 92	Experimental Probabilities 125
Expanding Brackets 93	Possibility Spaces 126
Simple Factorisation 94	Venn Diagrams 127
Substitution 95	Representing Data 128
Straight Line Graphs 96	Scatter Diagrams 129
The Gradient of a Line 97	Averages From a Table 130
Drawing Quadratic Graphs 98	

MathsWatch - Revision lessons just a click away ...	
MATHSWATCH COVERS EVERY TOPIC ON THE GCSE SYLLABUS	
Grades that will be examined:	Grades that can be obtained:
Higher 1 2 3 4 5 6 7 8 9	Higher 4 5 6 7 8 9
Foundation 1 2 3 4 5	Foundation 1 2 3 4 5
The Maths Grade 1 to 9 syllabus is split into 5 areas and 246 videos.	
Number - 65 videos	
Algebra - 64 videos	
Ratio and Proportion - 23 videos	
Geometry and Measures - 66 videos	
Probability and Statistics - 28 videos	
How long will it take to revise?	
The timings of our videos are:	
0 to 5 mins 107 videos	
5 to 10 mins 112 videos	
10 to 15 mins 22 videos	
15 to 20 mins 4 videos	
20 to 25 mins 1 video	

GCSE Foundation Tier Checklist

Multiplication - Video 199, 200

Division - Video 98

Addition - Video 6

Subtraction - Video 304

Rounding - Video 276, 277a, 277b, 278, 280

Estimation - Video 215

Order of Operations - Video 211

Ordering Decimals - Video 95

Arithmetic with Decimals - Videos 90, 91, 92, 93, 94

Multiples and Factors - Videos 220, 216

Prime Numbers - Video 225

Square Numbers and Square Roots - Videos 226, 228

Cube Numbers and Cube Roots - Videos 212, 214

Product of Primes - Video 223

LCM/HCF - Videos 218, 219, 224

Indices - Videos 172, 174

Negative Indices - Video 175

Standard Form - Video 300, 302, 303

Fractions of Amounts - Video 137

Adding Fractions - Video 133

Multiplying Fractions - Video 142

Dividing Fractions - Video 134

Reciprocals - Video 145

Fractions, Decimals, Percentages - Videos 121 to 129

Expressing as Fraction or % - Videos 136, 237

Percentages of Amounts - Videos 234, 235, 238

Percentage Change - Video 233

Simple Interest - Video 236a

Compound Interest - Video 236

Reverse Percentages - Video 240

Ratio - Videos 269, 270, 271

Currency - Video 214a

Recipes - Video 256

Negative Numbers - Videos 205-209

Place Value - Video 222, 222a

Error Intervals - Video 377

Money - Video 400

Best Buys - Video 210

Proportion - Videos 255a, 254

Use of a Calculator - Video 352

Tally Charts - Video 321

Frequency Trees - Video 376

Two-way Tables - Video 319

Pictograms - Videos 161, 162

Bar Charts - Videos 147, 148

Line Graphs - Video 160

Pie Charts - Video 163, 164

Probability - Videos 245, 246, 248

Relative Frequency - Video 248

Listing Outcomes - Video 253

Scatter Graphs - Videos 165 to 168

Averages & Range - Videos 56, 50, 53, 57

Mode: Frequency Table - Video 56a

Median: Frequency Table - Video 51

Combined Mean - Video 53a

Estimated Mean - Video 55

Venn Diagrams - Video 380

Tree Diagrams - Video 252

Reading Tables - Video 387

Samples - Video 281a

Coordinates - Video 84

Function Machine - Video 386

Writing Expressions - Video 16

Collecting Like Terms - Video 9

Multiplying & Dividing Terms - Videos 18, 11

Laws of Indices - Video 174

Sequences - Videos 286, 287, 290, 287a

Geometric Progressions - Video 375

The nth Term - Video 288

Expanding Brackets - Videos 13, 14

Factorising - Video 117

Factorising Quadratics - Videos 118, 120

Solving Equations - Video 110, 113, 266

Forming Equations - Videos 114, 115

Inequalities - Videos 177, 178, 179

Conversion Graphs - Video 151

Drawing Linear Graphs - Video 186

$y = mx + c$ - Video 191

Gradient - Video 189

Real Life Graphs - Video 171a

Parallel graphs - Video 196

Substitution - Video 20

Changing the Subject - Video 7

Simultaneous Equations - Videos 295, 297

Quadratic Graphs - Video 264

Cubic Graphs - Video 344

Reciprocal Graphs - Video 346



Adding Fractions - Video 133
 Multiplying Fractions - Video 142
 Dividing Fractions - Video 134
 Reciprocal - Video 145
 Decimals - Video 90, 91, 92, 93, 94
 Use of a Calculator - Video 352
 Estimation - Video 215
 Best Buys - Video 210
 Currency - Video 214a
 Conversion Graphs - Video 151, 152
 LCM/HCF - Videos 218, 219
 Product of Primes - Videos 223, 224
 Indices - Videos 172, 174
 Indices (fractional/negative) - Videos 173, 175
 Standard Form - Videos 300, 301, 302, 303
 Percentages of Amounts - Videos 234, 235, 238
 Percentage change - Video 233
 Simple Interest - Video 236a
 Compound Interest - Video 236
 Reverse Percentages - Video 240
 Recurring Decimals to Fractions - Video 96
 Ratio - Videos 270, 271, 271a, 271b, 271c
 Direct Proportion - Video 254
 Inverse Proportion - Video 255
 Proportional Graphs - Video 255b
 Proportion (application) - Video 255c
 Limits of Accuracy - Videos 183, 184
 Surds - Videos 305, 306, 307, 308
 Product Rule for Counting - Video 383
 Error Intervals - Video 377, 280
 Collecting Like Terms - Video 9
 Expanding Brackets - Videos 13, 14, 15
 Factorising - Video 117
 Factorising Quadratics - Videos 118, 119, 120, 119a
 Algebraic Fractions - Videos 21, 22, 23, 24
 Sequences (nth term) - Videos 288, 289
 nth term (quadratics) - Video 388
 Substitution - Video 20
 Equations - Videos 110, 113, 114, 115
 Changing the Subject - Videos 7, 8
 Inequalities - Videos 177, 178, 179
 Inequalities (Regions) - Video 182
 Quadratic Inequalities - Video 378
 Linear Graphs - Videos 191, 186, 189, 194
 Midpoint of a Line - Video 198
 Distance between 2 points - Video 185
 Real-life Linear Graphs - Video 171a
 Parallel or Perpendicular Lines - Videos 196, 197
 Simultaneous Equations - Video 295
 Non-linear Simultaneous Equations - Video 298
 Graphical Simultaneous Equations - Video 297

GCSE Higher Tier Checklist



Angles in Parallel Lines - Video 25, 39
 Bearings - Video 26, 27
 Angles in Polygons - Video 32
 Constructions - Video 78, 72, 79, 80, 70
 Loci - Videos 75, 76, 77
 Views - Video 354
 Area of a Trapezium - Video 48
 Circumference - Video 60
 Area of a Circle - Video 40
 Arc Length - Video 58
 Area of a Sector - Video 48
 Volume of a Cylinder - Video 357
 Pythagoras - Video 257, 259
 Trigonometry - Videos 329, 330, 331
 3D Trig and Pythagoras - Videos 259, 332
 Exact Trig Values - Video 341
 Volume of a Prism - Video 356
 Volume of Cone/Pyramid/Sphere - Videos 359-361
 Volume of a Frustum - Video 360a
 Surface Area of a Prism - Video 311
 Surface Area of Cone/Sphere - Videos 314, 313
 Metric Units (area/volume) - Videos 350, 351
 Translations - Video 325
 Reflections - Video 272
 Rotations - Video 275
 Enlargements - Videos 104, 106, 107, 108
 Similar Shapes - Videos 292, 293a, 293b
 Circle Theorems - Videos 64, 65
 Sine Rule - Video 333
 Cosine Rule - Videos 335, 336
 $1/2ab\sin C$ - Video 337
 Vectors - Video 353
 Column Vectors - Video 353a
 Travel Graphs - Video 171
 Speed, Distance, Time - Video 299
 Density - Video 384
 Pressure - Video 385
 Geometric Proof - Video 366
 Congruent Triangles - Video 67
 Invariant Points - Video 392

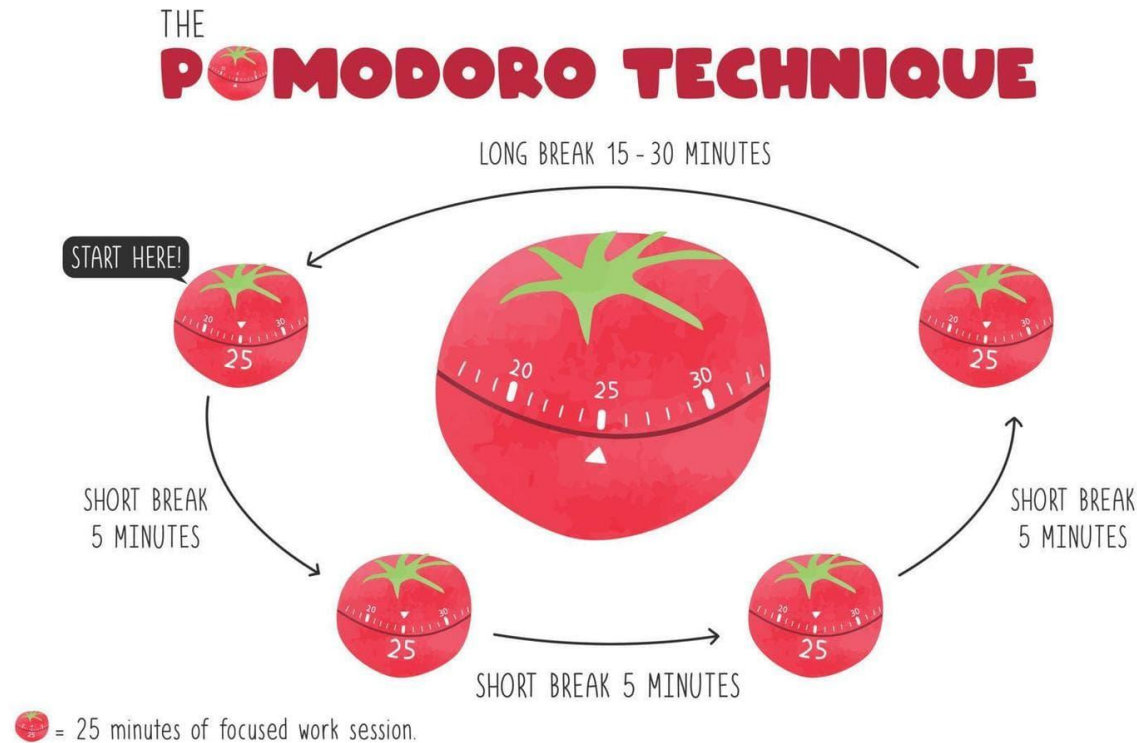
Frequency Trees - Video 376
 Two-way Tables - Video 319
 Pie Charts - Videos 163, 164
 Scatter Graphs - Videos 165, 166
 Histograms - Video 157, 158, 159
 Cumulative Frequency - Videos 153, 154
 Box Plots - Video 149
 Quartiles - Video 57a
 Estimated Mean - Video 55
 Combined Mean - Video 53a
 Median (frequency table) - Videos 51, 52
 Modal class (frequency table) - Video 56a
 Probability - Video 250
 Relative frequency - Video 248
 Samples - Video 281a
 Tree Diagrams - Video 252
 Conditional Probability - Video 247
 Venn Diagrams - Video 380
 Equation of a Circle - Video 12
 Equation of a tangent - Video 372
 Instantaneous rates of change - Video 390a
 Average rates of change - Video 390b
 Area under a curve - Video 389
 Composite Functions - Video 370
 Inverse Functions - Video 369
 Quadratic Graphs - Video 264
 Solving Quadratics Graphically - Videos 367c, 367d
 Sketching Quadratics - Video 265
 Trigonometric Graphs - Videos 338, 339
 Cubic Graphs - Video 344
 Reciprocal Graphs - Video 346
 Exponential Graphs - Video 345
 Geometric Sequences - Video 375
 Algebraic Proof - Video 365
 Quadratic Formula - Video 267
 Completing the Square - Video 10, 371
 Transformations of Graphs - Video 323, 324
 Identities - Video 16a
 Iteration - Video 373, 373a, 373b

A few things that can help your child revise for Maths

- Help them to set themselves a time limit
- Ensure they include rest breaks
- Ensure they have a quiet space away from any distractions
- Ensure they put their mobile phones to one side
- Ensure they have their revision guides/exam practice workbooks to hand
- Ensure they have equipment ready such as pen, pencil, flash cards, calculator etc

How to break down the revision

Once you have your initial list of subjects and topics, you now need to understand how to manage your time. There are many theories to follow to help you; one is explained below.



Useful websites for Maths Revision

- www.vle.mathswatch.com (your child already has their MathsWatch log in, if not they can ask their class teacher)
- www.corbettmaths.com there is no subscription required, on this website are numerous worksheets/videos and past exam papers as well.
- www.tassomai.com You will learn more about this from the Science department
- PLEASE NOTE OUR EXAM BOARD IS AQA, but maths is maths, all practice is good