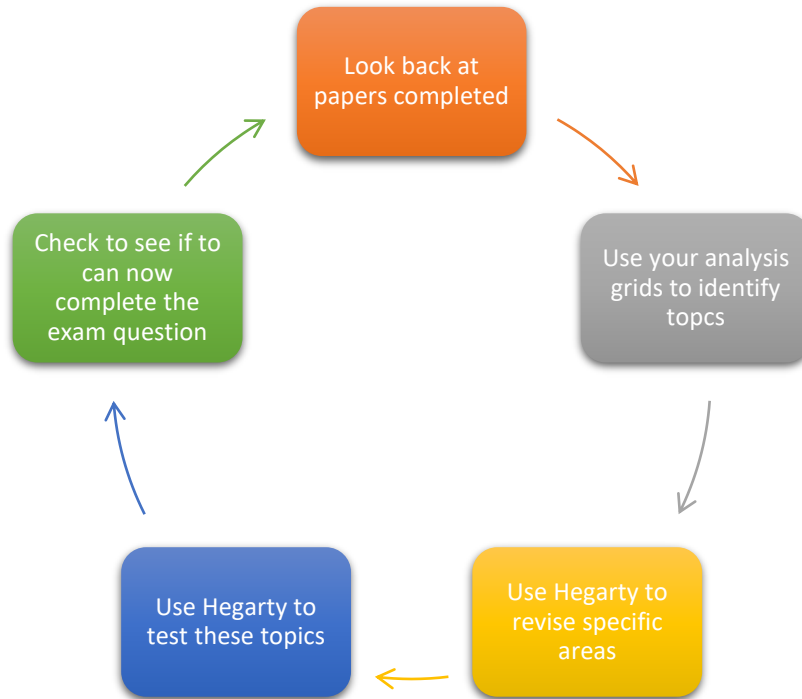


Revising for GCSE Mathematics

Preparation * Pace * Progress



You cannot revise the entire maths course in one go

–

You need to break it down into chunks

Preparation


Identify the topics that you need to revise – The analysis grids give you this information – If you need support in identifying your key topics talk to your teacher

Pace

Look at how long it will take you to revise a topic – plan ahead and organise your revision so that you know what topics you will revise and when you will revise them

Progress

Always check your understanding against the Exam Papers you have done to check your progress – if you need help in checking your progress ask your teacher for additional examples from a topic

Topic List	Clip Numbers			
Number				
Decimal multiplication and division	48 , 49 , 50			
Add, subtract, multiply and divide fractions	66 , 68 , 69 , 70			
Significant figures and estimation	130 , 131			
Standard form	122 , 123 , 128			
Prime factor decomposition, HCF and LCM	30 , 32 , 35 , 36			
Fractions of an amount (non-calculator)	62 , 67 , 80			
Percentages of an amount	84 , 85 , 86 , 87			
Percentage increase and decrease	88 , 89 , 90 , 97			
Compound interest and depreciation	94 , 95			
Reverse percentages	96			
Ratio and Proportion	332 , 333 , 334 , 339			
Algebra				
Collecting like terms	156 , 157 , 158 , 159			
Simplifying using the index laws	172 , 174 , 175			
Expand and simplify expressions with brackets	160 , 161 , 162 , 163			
Factorisation	168 , 169			
Sequences: finding the n^{th} term rule	198			
Substitution	155 , 278 , 279			
Trial and improvement	321			
Forming and solving equations	179 , 180 , 184 , 185			
Represent inequalities on a number line; Solving linear inequalities	265 , 266 , 267			
Simultaneous linear equations	190 , 191 , 192 , 193			
Drawing straight line graphs; Finding the equation of a straight line	205 , 206 , 207 , 208			
Drawing quadratic graphs	251			
Solving quadratic equations by factorising	223 , 224 , 225 , 230			
Difference of two squares	165			
Geometry & Measures				
Compound area	554 , 555			
Area of triangles, parallelograms and trapezia	556 , 557 , 558 , 559			
Area of a circle	534 , 535 , 536 , 537			
Circumference of a circle	539 , 540 , 541 , 542			
Volume of cuboids, prisms and cylinders	568 , 569 , 571 , 572			
Angles on a line and around a point	477 , 478 , 479 , 480			
Angles in a triangle (including isosceles triangles)	485 , 486 , 487			
Alternate and corresponding angles (parallel lines)	481 , 482 , 483			
Interior and exterior angles of polygons	561 , 562 , 563 , 564			
Multi-step angle problems	488 , 489 , 490 , 491			
Draw and measure bearings	494 , 493 , 494 , 495			

Geometry & Measures (Continued)

Constructions	NEW 659 - 669			
Loci	NEW 674 - 679			
Transformations: reflections, rotations, enlargements, translations	NEW 637 - 658			
Pythagoras' theorem	498 , 499			
Trigonometry in right-angled triangles	509 , 510 , 511 , 512			
Similar shapes	608 , 609 , 610			
Compound measures; converting metric units				

Statistics & Probability

Stem and leaf diagrams	430 , 431			
Questionnaires	399 , 400 , 401			
Scatter graphs	453 , 454			
Frequency polygons	441			
Two way tables	422 , 423			
Mean from a grouped frequency table	417 , 418			
Pie Charts	427 , 428			
Box plots	434 , 435 , 436			
Cumulative frequency graphs	437 , 438 , 439			
Stratified sampling	396 , 397			
Histograms	442 , 443			
Probability from a table	351 , 352 , 353 , 354			
Probability: expected outcomes	355 , 356			
Probability tree diagrams	361 , 362			

Doing a task

Watch the video carefully taking the best notes you can. Use lots of colour and work hard to follow each example. Replay anything you might be unsure of.

The screenshot shows a math task interface with the following sections:

- quadratic expressions 6**: $3x^2 + 10x + 3$
- Factorise quadratic expressions 6**: A task description with a 'Do quiz' button.
- Building blocks**: A section with three sub-tasks:
 - Expand double brackets 3**: $(3x + 5)(4x - 6)$
 - Factorise single expressions 2**: $3x^2y - 15xy$

Work on your **Building blocks**. If you struggle with the video then improving these will help you access the task better. Aim to make all building blocks 100%.

Did you understand the video?

No

Yes

Do quiz

