

## **HIGHER REVISION LIST :**

You will sit three GCSE papers 1: paper 1 is non-calculator and papers 2 & 3 are calculator allowed.

The topics shown below are **all** the main topics required for the Higher Tier GCSE Maths exam

You should RAG rate your understanding of each of these, based on your PLCs from past exams then spend longer working on your red and amber topics.

To revise you should

- Prioritise topics you got wrong in your last assessment (see your PLC)  
Using either Corbettmaths or Dr Frost
  - watch the video & make revision notes
  - do the practice questions and mark them
- Practice topics at the grade you are aiming for using the MathsGenie website

TOPIC	CORBETTMATHS	R	A	G
Add subtract, multiply & divide decimals	90,91,92,93,94			
Manipulate decimal calculations	222a			
Recurring decimals to fractions	96			
Adding, subtracting, multiplying & dividing fractions & mixed numbers	133, 134, 139, 140, 142			
Fractions of an amount	137,141, 143			
Compare fractions	144			
Reverse fractions	138			
Reciprocal	145			
% of quantities with and without a calculator	234,235, 238, 239			
Write one quantity as a fraction or % of another	136, 233, 237			
Compound interest & depreciation	236			
Reverse %	240			
Change between fractions, decimals & %	121 - 129			
Rounding & estimation	276, 277ab, 278, 215			
Limits of accuracy & error intervals	183, 184, 280, 377			
Prime numbers & product of prime factors	225, 223			
Multiples, factors, HCF & LCM	220,216, 218, 219, 224			
Indices ( incl. negative & fractional)	172, 173, 174, 175			
Square numbers, cube numbers, roots, triangular numbers	226 - 229			
Ratio	269 - 271			
Best buys	210			
Currency	214a			
Recipes	256			
Standard form	300 - 303			
Use of a calculator	352			
Direct & inverse proportion	254, 255			
Surds	305 - 308			
Simplifying expressions	9, 18, 11			
Substitution	20			
Linear Sequences	286 - 290			
Quadratic sequences	388abc			
Other types of sequence	287a, 374, 375			
Arithmetic & geometric progressions				
Expanding single, double & triple brackets	13, 14			
Factorising	117, 118, 119, 120			
Completing the square	267a			
Solve quadratic equations by factorising	266			
Quadratic formula	267			
Solving equations	110 - 115			
Linear & Quadratic Inequalities	177 - 182, 378			
Conversion graphs	151			

Straight line graphs	185 – 198, 383			
Quadratic graphs	264, 165, 267cd, 371			
Cubic, reciprocal & exponential graphs	344,345,346			
Equation of a circle & tangents to a circle	12, 372			
Transformation of graphs	323, 324			
Rearranging formulae	7, 8			
Simultaneous equations (linear)	295, 296			
Simultaneous (one is non-linear)	298			
Algebraic fractions	21 - 24			
Algebraic proof	365			
Functions	369, 370			
Iteration	373, 373a			
Properties & names of shapes	2, 3, 4, 5, 327			
Angle facts	30, 33, 34, 35, 37, 39			
Angles in parallel lines	25			
Angles in polygons	32			
Bearings & map scale	26, 27, 27a, 283			
Area of parallelogram & trapezium	44, 48			
Circumference & area of a circle & parts of a circle	59, 60, 61, 62			
Arc length, sector & segment area	46, 58, 63			
Volume of cuboid & prisms	355, 356			
Surface area	310, 311, 312			
Volume & surface area of a cylinder	315, 357			
Volume & surface area of pyramid, cone & sphere	314, 313, 359, 360, 361			
Line & rotational symmetry	316, 317			
Transformations	325, 326, 272, 273, 275, 104, 105, 106, 107, 108			
Invariant points	392			
Similarity & congruence	291, 292, 293ab, 66, 67			
Circle Theorem	64, 65, 386ab			
Construction & loci	72, 78, 79, 80, 70, 83, 75, 76, 77			
Convert measures incl. area & volume	347 348, 349, 350,351			
Speed, distance, time & d/t graphs	299, 171, 389, 390ab			
Pressure & density	384, 385			
Pythagoras	257 - 263			
Trigonometry (SOH CAH TOA)	329- 332, 341			
Trig sine & cosine rule & area of triangle	333 - 337			
Trig graphs	338 - 340			
Vectors	353, 353a			
Pie charts	163, 164			
Scatter graphs	165 – 168			
Histograms	157,158,159			
Cumulative Frequency graphs	153, 154			
Boxplots	149			
Listing outcomes & product rule for counting	253, 383			
Probability	245, 246, 248, 249, 250, 251			
Venn diagrams & set notation	379, 380			
Frequency trees	376			
Tree diagrams & conditional probability	252, 247			
Averages & range	56, 50, 53, 57			
Averages from a table	51, 52, 54, 55			