

Year 11 Mock - Revision List for Higher Tier Maths

The aim is to give you a full mock experience but note that the topics in red have not been taught yet and it is not essential to revise them.

Topic	Hegarty Clip Number
Volume of a prism	571
Forming equations	176
Independent events	360,361
Compound shapes	555
Change the subject of the formula	285
Solving quadratic equations	233
Cumulative frequency diagrams	437-438
Linear inequalities as graph regions	275
Exponential growth	806
Conditional probability	366
Calculating with decimals	48 - 50
Venn diagrams	372
Four operations with fractions	66
Percentage increase or decrease	88
Share in a given ratio	334
Rationalising surds	119
Surface area of spheres and cuboids	588,584
Product rule for counting	673
Rules of indices	103 - 108
Area of a square, estimate complex calculations	554,131
Estimate complex calculations	131
Histograms	443
Circle theorems	598-603
Area of triangle ($\frac{1}{2}ab\sin C$)	517
Convert recurring decimals to fractions	53
Box plots	436
Writing algebraic expressions	153
Algebraic fractions	172,244
Area of a sector	547
Simplify algebraic fractions involving quadratics	229
Right-angled trigonometry	510
Distance-time graphs	876-878
Simultaneous equations (with one quadratic)	259
Find the turning point of quadratic graphs	256
Upper and lower bounds	139
Standard form	122-128
Inequalities on a number line	265-266
Similar triangles	612
Highest common factor, lowest common multiple	31, 34
Inverse proportion	342
Drawing quadratic graphs from tables	251
Find the x-intercepts (roots) of a quadratic graph	253
Pythagoras	502,503
Error intervals	774
Density	730
Cumulative frequency diagrams	437
Sine rule	521
Exponential problems	799
Graphs and algebraic proportion	348
Similar triangles	612
Straight line graphs and perpendicular lines	216
Expand triple brackets	166
Ratio problem solving	328,335
Graph transformations	308-311
Scatter diagrams	453-454
Cosine rule	527
Fibonacci sequence	263
Iteration	322

Probability of events	352-354
Sine graph	303
Change the subject of the formula	284
Volume and surface area of similar shapes	621
Instantaneous rate of change	890
Probability trees	361
Functions	293-297
Equation of a circle	778
Direct proportion	344
Vectors	631,635
Area under a curve	892