MATHS TOPIC LIST PAPER 3 HIGHER

This list is to be used as a guide for your revision. It is not an exhaustive list of every topic, but a carefully tailored one to support you to focus your revision.

What came up in Paper 1? **Unlikely to appear again**	• Decimal multiplication • Scatter graphs • Probability tables • Nth term of a linear sequence • Inverse proportion (worded) • Factorise and solve quadratics • Surface area/volume of a cuboid • Percentage profit • Exact trig values/SOHCAHTOA/Pythag • Ratio, % and fractions • Simplify basic indices	• Graphing inequalities (regions) • Recurring decimals • Using scale factions with area/volume • Trigonometric graphs • Expanding triple brackets • Completing the square • Iterative processes • Histogram • Area of a trapezium with surds • Solve quadratic inequalities • Circle theorem proof
What came up in Paper 2? **Unlikely to appear again**	• LCM and HCF • Expand quadratic • Solve x on both sides • Basic angle in polygons • Worded ratio • Standard form calculation and conversion • Compound interest • Error intervals • Combined mean, form expression • Box plot • Probability tree	• Solve inequality • Product rule • Capture/Recapture • Quadratic formula • Gradient of a curve • Arcs/sectors • Graphical transformations • Algebraic fractions (+ -) • Geometric vectors • Composite functions • Inverse function • 3D Trig • Pressure, rationalise the denominator

Extremely Likely **Common topics left after Papers 1 and 2**	• Algebraic fractions (x or /) • Simultaneous equations (linear and non linear) • Angle facts • Graphs (quadratics, cubic, circle, area under a curve) • Bounds • Algebra (solving, forming and solving, factorising, quadratic sequences) • Transformations • Volume • Area – problem solving • Trig – cosine rule, area of a triangle • Algebraic proof	• Cumulative frequency • Probability (including algebra, Venn diagrams) • Percentages (increase/decrease, reverse percentages, percentage change) • Proportion (including algebra) • Circle Theorems (not proof) • Iteration • Ratio • Compound Measures (density, speed) • Angles in parallel lines • Negative and fractional indices/index laws • Averages (from frequency table/reverse mean)