GCSE Maths Higher: Exam Road Map & Revision Tracker

How to use this tracker: Tick off your revision as you complete it, and rate your confidence from **1 (Needs Work)** to **5 (Exam Ready)** after each session.

Phase 1: High-Yield Algebraic & Numerical Foundations			
Weeks	Topic Breakdown	Revision Completed	Self-Assessment Rate Your Confidence 1 - 5
1	**Advanced Indices & Prime Factors:** Product of prime factors for complex HCF/LCM problems, and fractional/negative indices.	[ ]	⭐⭐⭐⭐⭐
2	**Standard Form & Recurring Decimals:** Standard Form calculations (add/subtract/multiply/divide without a calculator) and recurring decimal to fraction proofs.	[ ]	⭐⭐⭐⭐⭐
3	**Surds Manipulation:** Simplifying, expanding brackets, and rationalising denominators (including binomial denominators)	[ ]	⭐⭐⭐⭐⭐
4	**Advanced Brackets & Quadratics:** Advanced expansion (triple brackets) and factorising harder quadratics (where a>1) including the difference of two squares.	[ ]	⭐⭐⭐⭐⭐
5	**Solving Quadratic Equations:** Solving quadratics using three methods: factorising, completing the square and the quadratic formula.	[ ]	⭐⭐⭐⭐⭐
6	**Simultaneous equations:** Linear/Linear and Linear/Quadratic (leads to using the quadratic formula).	[ ]	⭐⭐⭐⭐⭐

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7	**Direct & Inverse Proportion:** Direct and Inverse proportion (setting up the constant k with powers, roots, and cubics.	[ ]	⭐⭐⭐⭐⭐

November Mock Exam Checkpoint			
Weeks	Topic Breakdown	Revision Completed	Self-Assessment Rate Your Confidence 1 - 5
8	**<u>Pre-Mock Blitz</u>** Rearranging complex formulas where the subject appears twice (requires factorising) + Paper 1 Non-Calculator pacing strategy.	[ ]	⭐⭐⭐⭐⭐
9	**<u>November Mock Exams</u>** Live error analysis or a triage session targeted on the topics that caused panic during the week's actual exams.	[ ]	⭐⭐⭐⭐⭐
10	**<u>Post-Mock Analysis</u>** Deconstructing the mock paper. Focus heavily on where marks were lost in the final 5 questions of the paper.	[ ]	⭐⭐⭐⭐⭐

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Phase 2: Geometric Proofs, Functions & Non-Linear Analysis			
Weeks	Topic Breakdown	Revision Completed	Self-Assessment Rate Your Confidence 1 - 5
11	**Advanced Coordinate Geometry:** Coordinate geometry: Finding equations of parallel lines and perpendicular lines ($m_1 \times m_2 = -1$)	[ ]	⭐⭐⭐⭐⭐
12	**Circle Equations:** Equation of a circle centered at the origin ($x^2 + y^2 = r^2$).	[ ]	⭐⭐⭐⭐⭐
13	**Quadratic sequences:** Finding the nth term formula using second differences.	[ ]	⭐⭐⭐⭐⭐
14	**Upper and Lower Bounds:** Tricky calculations involving compound measures (e.g. finding the upper and lower bound of speed where speed = distance/time).	[ ]	⭐⭐⭐⭐⭐
15	**Non-Right Angled Trigonometry & 3D Solids: Advanced trigonometry:** Sine rule, Cosine rule, and the Area of a triangle formula in non-right angled triangles. Frustrums and cones / Spheres.	[ ]	⭐⭐⭐⭐⭐
16	**Functions & Numerical Methods:** Composite functions and finding inverse functions.Iteration.	[ ]	⭐⭐⭐⭐⭐
17	**Geometric vectors:** Vector proofs, showing lines are parallel or form straight lines.	[ ]	⭐⭐⭐⭐⭐
18	**Advanced Inequalities:** Solving linear inequalities, quadratic inequalities (using sketch graphs) and shading regions defined by multiple inequalities.	[ ]	⭐⭐⭐⭐

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Phase 2: Geometric Proofs, Functions & Non-Linear Analysis			
Weeks	Topic Breakdown	Revision Completed	Self-Assessment Rate Your Confidence 1 - 5
19	**Histograms:** Calculating and plotting frequency density and estimating frequencies from partial bars.	[ ]	⭐⭐⭐⭐⭐
20	**Cumulative Frequency & Box Plots:** Cumulative frequency graphs and box plots. Finding the median, interquartile range (IQR) and outliers.	[ ]	⭐⭐⭐⭐⭐
21	**Conditional Probability:** dependent tree diagrams, algebraic probability problems (e.g There are n sweets in a bag...). Capture-Recapture.	[ ]	⭐⭐⭐⭐⭐

Phase 3: High-Order Problem Solving & Prediction Triage			
Weeks	Topic Breakdown	Revision Completed	Self-Assessment Rate Your Confidence 1 - 5
22	Easter Mock Prep Advanced algebraic proofs (proving consecutive numbers, odd/even results, and geometric properties algebraically).	[ ]	⭐⭐⭐⭐⭐
23	Easter mocks/break Post-mock evaluation. Focus entirely on structural weaknesses (e.g. misinterpreting 6-mark problem-solving questions)	[ ]	⭐⭐⭐⭐⭐

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Phase 3: High-Order Problem Solving & Prediction Triage			
Weeks	Topic Breakdown	Revision Completed	Self-Assessment Rate Your Confidence 1 - 5
24	**Graph Transformations & Completing Square:** f(x + a), f(x) +a and f(ax) applying to turning points and trigonometry curves. Completing the square (and use it to identify turning points.	[ ]	
25	**Gradients and rates of change:** Estimating gradients of curves using tangents, and calculating area under a curve (distance on velocity-time graphs) using chords/trapezia.	[ ]	
26	**Circle Theorems & Formal Proofs:** Full geometric proofs (including alternate segment theorem and cyclic quadrilaterals) using formal geometric vocabulary.	[ ]	
27+	**The Prediction Triage:** Tracking which topics appeared on Paper 1 to hyper-focus the remaining preparation on Papers 2 and 3. Dealing with high-order question combinations.	[ ]	