

Topic		Resources to support revision
<ul style="list-style-type: none"> • Factor theorem, cubic graphs • Transformations of graphs • Conversion between parametric and Cartesian forms, trigonometric identities • Coordinate geometry, equations of straight lines and circles • Arithmetic sequences and series, inequalities • Periodic sequences • Sum to infinity of a geometric series, exact values of trigonometric functions • Graphs of trigonometric functions, transformations of graphs • Small angle approximations of trig functions, binomial expansion • Implicit differentiation, stationary points of curves • Tangents to a curve • The gradient function of a curve • Area under a curve, integration techniques, trapezium rule • Integration by substitution, differentiation of trigonometric functions, trigonometric identities • Newton-Raphson method, areas of sectors and triangles, locating roots by considering a change of sign 	Paper 1	<p data-bbox="1155 230 1299 259">Mathsgenie</p>  <p data-bbox="1155 479 1339 508">Exams Solution</p>  <p data-bbox="1155 759 1278 788">Kerboodle</p> 
<p data-bbox="73 931 209 960">Section A</p> <ul style="list-style-type: none"> • Proofs by counterexample and exhaustion • Transformations of graphs, sketch curves defined by simple equations • Coordinate geometry of the circle • Binomial expansion, integration of polynomials • Sine and cosine rules • Laws of logarithms • Convex and concave sections of curves • Differentiation from first principles • Maximum and minimum points of polynomials • Solving differential equations, exponential models, partial fractions <p data-bbox="73 1323 209 1352">Section B</p> <ul style="list-style-type: none"> • Position vectors, constant acceleration formulae in two dimensions • Calculus in kinematics using vectors, calculus for exponential and trigonometric functions, calculus techniques, magnitude of a vector • Constant acceleration formulae • Projectile motion, trigonometric functions • Velocity-time graphs • Forces in equilibrium in 2D • Newton's laws of motion, friction, resolving forces, constant acceleration formulae • Weight and acceleration due to gravity • Moments 	Paper 2	<p data-bbox="1155 1010 1259 1039">Dr Frost:</p> <p data-bbox="1155 1043 1546 1072">https://www.drfrostmaths.com/</p> 
<p data-bbox="73 1780 209 1809">Section A</p> <ul style="list-style-type: none"> • Proof by contradiction • Inverse functions • Validity of binomial expansion • Graphs of trigonometric functions, trigonometric equations • Using logarithmic graphs to estimate parameters in non-linear relationships 	Paper 3	

<ul style="list-style-type: none"> • Connected rates of change • Parametric differentiation, parametric models • Stationary points of curves, graphs of a function, domains and ranges of a function, simultaneous equations • Area between two curves • Integrating powers of x <p>Section B</p> <ul style="list-style-type: none"> • Critique statistical sampling • Sampling methods and terminology • Interpreting statistical diagrams, distributions • Probability using Venn diagrams, conditional probability, independent events • Binomial distribution, binomial probabilities • Normal distribution properties and probabilities, calculations with summary statistics • Parameters of a normal distribution • Hypothesis test for mean of a normal distribution • Hypothesis test for proportion using binomial distribution 		