



Network School AS Long Term Curriculum Plan

Subject – Pure Mathematics 1				
Year Group	Term 1 (Aug – Oct)	Term 2 (Oct – Dec)	Term 3 (Jan – Mar)	Term 4 Mar – Jun)
Year 12 (AS Level)	<p><u>Chapter 1 - Quadratics</u> A – Back ground Algebra B – Linear equations C – Changing the subject of a formula D – Quadratic equations E - Solving quadratic equations F – Equations that cannot be factorised G – Graphs of quadratic equations H – The quadratic formula I – Simultaneous equations J - Inequalities</p> <p>Review / Topic tests</p> <p><u>Chapter 2 - Functions</u> A – The language of functions B – Composite functions C – Inverse functions D – Graph of a function and its inverse Review / Topic tests</p> <p><u>Chapter 3 – Co-ordinate Geometry</u></p>	<p><u>Chapter 6 – Series</u> A – Definitions and notations B – Arithmetic progressions C – Geometric progressions D – Binomial expansions</p> <p>Review / Topic tests</p> <p><u>Chapter 7 – Differentiation</u> A – The gradient of a curve B – Finding the gradient of a curve C – Finding the gradient from first principles D – Differentiating by using standard results E – Using differentiation F – Tangents and Normals G – Maximum and Minimum points H – Increasing and decreasing functions I – Points of inflection J – The second derivative K – Applications L – The chain rule</p> <p>Review / Topic tests</p>	<p><u>Revision</u></p> <p>Using worksheets – topic by topic</p> <p>Preparing for the mock exam</p> <p>Reviewing mock exam results.</p> <p>More revision – using past question papers</p>	<p>Final preparation for AS level exams</p>



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	<p>A – Co-ordinates B – Plotting, Sketching and Drawing C – The gradient of a line D – The distance between two points E – The mid-point of a line joining two points F – The equation of a straight line G – Finding the equation of a line H – The intersection of two lines I – Drawing curves J – The intersection of a line and a curve</p> <p>Review / Topic tests</p> <p><u>Chapter 4 – Circular Measure</u> A – Understand the relationship between radians and degrees B – The length of an arc of a circle C – The area of a sector of a circle D – Other trigonometrical functions</p> <p>Review / Topic tests</p>	<p><u>Chapter 8 – Integration</u> A – Reversing differentiation B – Finding the area under a curve C – Area as a limit of a sum D – Areas below the x-axis E – The area between two curves F – The area between a curve and the y-axis G – The reverse chain rule H – Improper integrals I – Finding volumes by integration</p> <p>Review / Topic tests</p>		
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	<p><u>Chapter 5 - Trigonometry</u> A – Trigonometry background B – Trigonometrical functions C – Trigonometrical functions for angles of any size D – The Sine and Cosine curve E – The Tangent curve F – Solving equations using graphs of trigonometrical functions</p> <p>Review / Topic tests</p>			
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