

## Y10 Summer Mock Revision List: *Mathematics - Higher*

Exam: 1 x Non-Calculator 70 mins

2 x Calculator 70 mins

Revision Topic List	
Content	Skills
<ul style="list-style-type: none"><li>• <b>Number</b></li></ul>	<ul style="list-style-type: none"><li>• Surds</li><li>• Upper and Lower bounds</li><li>• Product Rule</li><li>• Error interval</li><li>• Estimating</li><li>• HCF and LCM</li><li>• Estimation</li><li>• Recurring decimals to fractions</li><li>• Arithmetic with fractions</li><li>• Standard form including calculating</li><li>• Simplifying indices including negatives and fractions</li></ul>
<ul style="list-style-type: none"><li>• <b>Algebra</b></li></ul>	<ul style="list-style-type: none"><li>• Algebraic Fractions</li><li>• Factorising and Solving quadratics including:<ul style="list-style-type: none"><li>○ Quadratic formula</li><li>○ Completing the square</li></ul></li><li>• Rearranging formula</li><li>• Expanding and Simplifying Linear and Quadratic equations</li><li>• Expand and Simplify triple brackets</li><li>• Solving linear equations including forming</li><li>• Solving Simultaneous equations including quadratics and solving graphically</li><li>• Iteration</li><li>• Arithmetic, Geometric and Quadratic sequences</li><li>• Plotting linear graphs</li><li>• Equations of Parallel and Perpendicular lines</li></ul>

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<ul style="list-style-type: none"><li>● <b>Ratio, proportion and percentages</b></li></ul>	<ul style="list-style-type: none"><li>● Share in a Given Ratio</li><li>● Direct and Inverse Proportion</li><li>● Simple and Compound interest</li><li>● Percentage change</li><li>● Reverse percentages and fractions</li></ul>
<ul style="list-style-type: none"><li>● <b>Statistical measure and collection of data</b></li></ul>	<ul style="list-style-type: none"><li>● Upper and lower quartiles</li><li>● Stratified sampling</li><li>● Averages from frequency table - grouped and discrete data</li><li>● Calculation averages including:<ul style="list-style-type: none"><li>○ Mean</li><li>○ Median</li><li>○ Mode</li><li>○ Range</li></ul></li><li>● Histograms</li><li>● Cumulative frequency and box plots</li><li>● Comparing data</li><li>● Scatter diagrams</li><li>● Frequency polygons</li><li>● Frequency trees</li></ul>
<ul style="list-style-type: none"><li>● <b>Geometry</b></li></ul>	<ul style="list-style-type: none"><li>● Area and perimeter of shape including circles and sectors</li><li>● Prove congruence of shapes</li><li>● Calculating length, area and volume of Similar Shapes</li><li>● Pythagoras including 3D</li><li>● Trigonometry including 3D and exact trig values</li><li>● Angles in parallel lines</li><li>● Circle theorems</li><li>● Angles in polygons</li></ul>

Top Maths websites for revision are;  
Maths genie - [www.mathsgenie.co.uk](http://www.mathsgenie.co.uk)  
Corbett maths - [corbettmaths.com](http://corbettmaths.com)  
Sparx maths - [www.sparxmaths.com](http://www.sparxmaths.com)