

**Exam information:**

**2 papers both 1hr 30mins each**

**Paper 1 – 2/3 pure, 1/3 mechanics**

**Paper 2 – 2/3 pure, 1/3 stats**

Topic	Revised?
<b>Pure – Paper 1 and 2</b>	
<b>Algebra</b> Proof Indices Surds	
<b>Quadratics and Cubics</b> Factorising Solving Sketching Polynomial division	
<b>Inequalities and Simultaneous Equations</b> Inequalities – linear and quadratic Simultaneous Equations – linear and quadratic	
<b>Coordinate Geometry, Graphs and Circles</b> Equation of straight lines Parallel and perpendicular lines Proportion Curve Sketching Transformations of graphs Circles	
<b>Binomial Expansion</b> Binomial Expansion	
<b>Trigonometry</b> Sine and Cosine Rules Trig Identities Trig Graphs Solving Trig Equations	
<b>Exponentials and Logarithms</b> Exponentials Logarithms Laws of Logs Solving equations with Exponentials and Logarithms Modelling exponential growth and decay Using log graphs $y = ax^n \Rightarrow \log(y) = n\log(x) + \log(a)$ or $y = kb^x \Rightarrow \log(y) = x\log(b) + \log(k)$	
<b>Differentiation</b> From first principles Differentiating polynomials Second order derivatives Derivatives and graphs Real life problems	
<b>Integration</b> Indefinite integration Definite Integration	
<b>Vectors</b>	

<p>Vectors Calculating with Vectors Modelling with Vectors</p>	
<p><b>Mechanics – Paper 1 ONLY</b></p>	
<p><b>Kinematics</b> Motion graphs Suvat Non uniform acceleration <math>s = \int v dt</math> and <math>v = \int a dt</math></p>	
<p><b>Forces and Newton’s Laws</b> Understanding Units Models in Mechanics Forces Newton’s Laws of Motion</p>	
<p><b>Stats – Paper 2 ONLY</b></p>	
<p><b>Sampling, Data Presentation and Interpretation</b> Populations and Sampling Representing Data Location: Mean, Median and Mode Dispersion Correlation and Regression</p>	
<p><b>Probability</b> Probability basics Solving probability problems Laws of Probability</p>	
<p><b>Statistical Distributions</b> Probability Distributions Binomial Distributions Cumulative Binomial Distributions Modelling Real Problems</p>	
<p><b>Hypothesis Testing</b> Hypothesis Tests Hypothesis Tests for a binomial distribution</p>	
Revision Links	
<p>CGP Physical textbook Kerboodle online textbook - <a href="https://www.kerboodle.com/users/login">https://www.kerboodle.com/users/login</a> Physics and maths tutor - <a href="https://www.physicsandmathstutor.com/maths-revision/a-level-aqa/">https://www.physicsandmathstutor.com/maths-revision/a-level-aqa/</a> Maths genie - <a href="https://www.mathsgenie.co.uk/newalevel2.php">https://www.mathsgenie.co.uk/newalevel2.php</a> Dr Frost</p> <p>Past Papers with solutions - <a href="https://www.physicsandmathstutor.com/maths-revision/a-level-aqa/papers-as/">https://www.physicsandmathstutor.com/maths-revision/a-level-aqa/papers-as/</a></p>	