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| Maths Revision List Summer 2025 | |
| **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? |
| **Pure – Paper 1 and 2** |  |
| **Algebra**  Proof  Indices  Surds |  |
| **Quadratics and Cubics**  Factorising  Solving  Sketching  Polynomial division |  |
| **Inequalities and Simultaneous Equations**  Inequalities – linear and quadratic  Simultaneous Equations – linear and quadratic |  |
| **Coordinate Geometry, Graphs and Circles**  Equation of straight lines  Parallel and perpendicular lines  Proportion  Curve Sketching  Transformations of graphs  Circles |  |
| **Binomial Expansion**  Binomial Expansion |  |
| **Trigonometry**  Sine and Cosine Rules  Trig Identities  Trig Graphs  Solving Trig Equations |  |
| **Exponentials and Logarithms**  Exponentials  Logarithms  Laws of Logs  Solving equations with Exponentials and Logarithms  Modelling exponential growth and decay  Using log graphs or |  |
| **Differentiation**  From first principles  Differentiating polynomials  Second order derivatives  Derivatives and graphs  Real life problems |  |
| **Integration**  Indefinite integration  Definite Integration |  |
| **Vectors**  Vectors  Calculating with Vectors  Modelling with Vectors |  |
| **Mechanics – Paper 1 ONLY** |  |
| **Kinematics**  Motion graphs  Suvats  Non uniform acceleration and |  |
| **Forces and Newton’s Laws**  Understanding Units  Models in Mechanics  Forces  Newton’s Laws of Motion |  |
| **Stats – Paper 2 ONLY** |  |
| **Sampling, Data Presentation and Interpretation**  Populations and Sampling  Representing Data  Location: Mean, Median and Mode  Dispersion  Correlation and Regression |  |
| **Probability**  Probability basics  Solving probability problems  Laws of Probability |  |
| **Statistical Distributions**  Probability Distributions  Binomial Distributions  Cumulative Binomial Distributions  Modelling Real Problems |  |
| **Hypothesis Testing**  Hypothesis Tests  Hypothesis Tests for a binomial distribution |  |
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| Revision Links | |
| CGP Physical textbook  Kerboodle online textbook - <https://www.kerboodle.com/users/login>  Physics and maths tutor - <https://www.physicsandmathstutor.com/maths-revision/a-level-aqa/>  Maths genie - <https://www.mathsgenie.co.uk/newalevel2.php>  Dr Frost  Past Papers with solutions - <https://www.physicsandmathstutor.com/maths-revision/a-level-aqa/papers-as/> | |