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| Further Maths Revision List Summer 2025 | |
| **Exam information:**  **2 papers both 1hr 30 mins each**  **Paper 1 – Pure**  **Paper 2 – 40 marks mechanics, 40 marks stats** | |
| Topic | Revised? |
| **Pure – Paper 1** |  |
| **Complex Numbers**  Properties and Arithmetic  Solving polynomials  Argand Diagrams  Modulus Argument Form and loci |  |
| **Algebra and Series**  Roots of polynomials  Inequalities  Summing of Series and Method of Differences  Proof by Induction  MacLaurin Series |  |
| **Curve Sketching**  Linear rational functions  Quadratic rational functions  Polar coordinates  Parabolas, ellipses and hyperbolas  Hyperbolic functions |  |
| **Integration**  Mean values  Volumes of revolution |  |
| **Matrices**  Properties and Arithmetic  Transformations  Systems of Linear equations |  |
| **Vectors**  The vector Equation of a line  Scalar Product  Finding Distances |  |
| **Mechanics – Paper 2** |  |
| **Forces and Energy**  Work, Energy, Power  Hooke’s Law  Dimensional Analysis |  |
| **Momentum**  Conservation of Momentum  Collisions  Impulses |  |
| **Circular** Motion  Kinematics of Circular Motion  Horizontal Circular Motion |  |
| **Stats – Paper 2** |  |
| **Discrete and Continuous Random Variables**  Discrete Distributions and Expectation  Poisson Distribution  Continuous Distributions |  |
| **Hypothesis Testing and Contingency Tables**  Hypothesis Testing and Errors  Contingency Tables  Confidence Intervals |  |
| Revision Links | |
| CGP Physical textbook  Kerboodle online textbook - <https://www.kerboodle.com/users/login>  Physics and maths tutor - <https://www.physicsandmathstutor.com/maths-revision/>  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-further-as/> | |