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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**ProofIndices Surds  |  |
| **Quadratics and Cubics**FactorisingSolving SketchingPolynomial division  |  |
| **Inequalities and Simultaneous Equations**Inequalities – linear and quadraticSimultaneous Equations – linear and quadratic |  |
| **Coordinate Geometry, Graphs and Circles**Equation of straight linesParallel and perpendicular linesProportionCurve SketchingTransformations of graphsCircles |  |
| **Binomial Expansion**Binomial Expansion |  |
| **Trigonometry**Sine and Cosine RulesTrig IdentitiesTrig GraphsSolving Trig Equations |  |
| **Exponentials and Logarithms**ExponentialsLogarithmsLaws of LogsSolving equations with Exponentials and LogarithmsModelling exponential growth and decayUsing log graphs or  |  |
| **Differentiation**From first principlesDifferentiating polynomialsSecond order derivativesDerivatives and graphsReal life problems |  |
| **Integration**Indefinite integrationDefinite Integration |  |
| **Vectors**VectorsCalculating with VectorsModelling with Vectors |  |
| **Mechanics – Paper 1 ONLY** |  |
| **Kinematics**Motion graphsSuvatsNon uniform acceleration and  |  |
| **Forces and Newton’s Laws**Understanding UnitsModels in MechanicsForcesNewton’s Laws of Motion |  |
| **Stats – Paper 2 ONLY** |  |
| **Sampling, Data Presentation and Interpretation**Populations and SamplingRepresenting DataLocation: Mean, Median and ModeDispersion Correlation and Regression |  |
| **Probability**Probability basicsSolving probability problemsLaws of Probability |  |
| **Statistical Distributions**Probability DistributionsBinomial DistributionsCumulative Binomial DistributionsModelling Real Problems |  |
| **Hypothesis Testing**Hypothesis TestsHypothesis Tests for a binomial distribution |  |
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| Revision Links |
| CGP Physical textbookKerboodle 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 FrostPast Papers with solutions - <https://www.physicsandmathstutor.com/maths-revision/a-level-aqa/papers-as/>  |