# MATHS
# Plans for Year 12 & 13 A Level Curriculum

| Year Group | AUTUMN 1 | AUTUMN 2 | SPRING 1 | SPRING 2 | SUMMER 1 | SUMMER 2 |
|---|---|---|---|---|---|---|
| 12 | Pure: algebra, graphs, factor theorem, proof. Applied: data handling, correlation, regression. | Pure: algebra, geometry, binomial, trig identities. Applied: probability, mechanics (SUVAT). | Pure: calculus for change, optimisation. Applied: mechanics with forces and vectors. | Pure: exponentials, logs, vectors. Applied: mechanics with Newton's laws, progression exams. | Pure: algebraic methods, expansion, graphs. Applied: statistics, conditional probability, hypothesis testing. | Pure: sequences, series, iteration, Newton-Raphson. Applied: normal distribution, hypothesis testing. |
| 13 | Pure: advanced trig, identities, equations. Applied: statistics recap, mechanics with forces, friction. | Pure: calculus (first principles, parametrics). Applied: static/dynamic forces, projectiles. | Pure: integration (advanced methods, DEs). Applied: kinematics, projectiles, vectors. | Pure: consolidation and revision. Applied: problem-solving and revision. | Pure: revision and exam practice. Applied: exam preparation. | |

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| **Paper 1: NAME** | Pure Maths (100 Marks)<br>Specification overview [**Pearson Edexcel AS and A level Mathematics (2017) \| Pearson qualifications** ]<br>Exam materials []Maths Genie - A Level Exam Papers - Past Papers, Mark Schemes and Solutions |
| **Paper 2: NAME** | **Pure Maths** (100 Marks)<br>Specification overview [**Pearson Edexcel AS and A level Mathematics (2017) \| Pearson qualifications**]<br>Exam materials [Maths Genie - A Level Exam Papers - Past Papers, Mark Schemes and Solutions] |
| **Paper 3: NAME** | **Applied Maths** (100 Marks) **– this paper is further divided into two parts – Statistics (50 Marks) and Mechanics (50 Marks)**<br>Specification overview [**Pearson Edexcel AS and A level Mathematics (2017) \| Pearson qualifications**]<br>Exam materials [Maths Genie - A Level Exam Papers - Past Papers, Mark Schemes and Solutions] |