|  |  |
| --- | --- |
| Course Title | A Level Further Maths |
| Aims of the Course | |
| The aims of the course are to:  - Develop mathematical skills introduced at GCSE.  - Develop transferable skills such as critical thinking, problem solving, and perseverance.  - Gain an appreciation for how mathematics influences the world around us. | |
| What will you study? | |
| |  |  |  | | --- | --- | --- | | **Core Pure** | **Applied \*these modules can change each year** | | | Algebraic proof  Complex numbers  Matrices  Polar coordinates | **Further Mechanics** | **Further Statistics** | | Momentum  Elastic collisions  Energy and power | Probability  Statistical distributions  Central limit theorem | | |
| How will you be assessed? | |
| - You will sit a test every few weeks throughout Year 12 and Year 13 to ensure the skills being taught are understood and embedded.  - All formal exams take place at the end of Year 13. | |
| What wider skills will you develop? | |
| - Problem solving and critical thinking. – Independent study skills  - Presentation and clarity of explanation. – Resilience | |
| What are the future options from the course? | |
| A maths qualification can open up so many doors and is always viewed favourably by potential employers. There are a wide range of careers which maths applies to, in areas ranging from engineering to entertainment. Actuarial sciences, urban planning, accountancy, meteorology, and stockbroker are all potential areas for future study. | |
| Who can you contact for more information? | |
| The Course Leader is Miss Fiona Rosler (Head of Maths) who can be contacted via email at [fiona.rosler@verulam.herts.sch.uk](mailto:fiona.rosler@verulam.herts.sch.uk) | |