

FURTHER MATHEMATICS

Offered as a fourth A-Level only, to be taken alongside Mathematics.

EXAM BOARD: EDEXCEL

Exams x 3 Papers

100%

Why study Further Mathematics?

Mathematics touches more aspects of modern living than ever before – communications, media, and financial management as well as computer and physical sciences, engineering, technology and business related subjects.

Mathematics gives future employers, universities and colleges clear evidence of highly valued numeracy and problem-solving skills irrespective of the actual role/course being considered.

Here at Stratford upon Avon School, we have staff who, prior to becoming mathematics teachers, have many years direct experience of the application of mathematics within a wide variety of industrial, commercial and public sector organisations – not as mathematicians but as engineers and management accountants and scientists.

An A-Level in Further Mathematics demonstrates mathematical reasoning of the highest order and is very highly regarded by many employers and universities particularly in the engineering, information technology and financial sectors. These will include the Russell Group universities and blue-chip companies looking for the highest calibre applicants for both specialist and general management careers.

Subject Specification Outline:

Pure Mathematics

Core Pure Mathematics 1 and 2: intended to develop mathematical argument, language and proof in the context of problem solving and mathematical modelling. Content will include proof, complex numbers, matrices, further algebra and functions, further calculus, further vectors, polar coordinates, hyperbolic functions and differential equations.

✚ a second component that can be chosen from:

Further Pure Mathematics

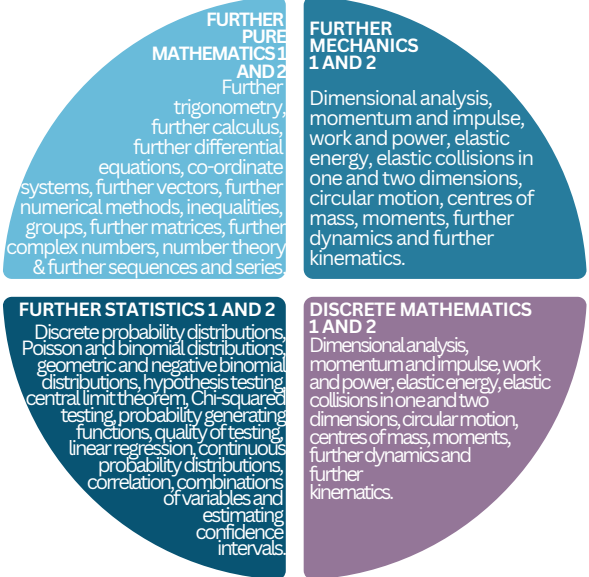
Further Mathematics

Further Statistics

Discrete Mathematics

The second module to be selected

Additional content, to be selected from:



Progress Assessment:

The first three units must be passed before progressing onto the remaining units. Units with written examinations will include at least one “mock” examination. Portfolio work is ongoing.

Final Exam Format: Four equally weighted written papers each of 90 minutes.

Self-Study Requirements: Each taught hour will require a minimum of an additional two hours of self study.

Progression Pathways: A-Level Further Mathematics supports a wide range of university level Mathematics courses and also supports an even wider range of science, engineering, economics, business studies, computer science courses (and indeed may be an essential requirement for certain courses/universities).

