

Spalding Grammar School Sixth Form

Subject Information

Further Mathematics

Entry Requirement:

Grade 8 in GCSE Mathematics or Grade 7 in GCSE Mathematics and Grade A in GCSE Further Mathematics.

Awarding body: Cambridge International Pre-U

About the subject: Students who are especially keen on Mathematics and found GCSE easy, will really enjoy taking "Double Maths". Further Mathematics is a challenging qualification, which both extends and deepens students' knowledge and understanding beyond the standard Mathematics course.

This course has twice the amount of teaching time as Single Mathematics. It is particularly suitable for students who are interested in Mathematics, Computing, Physics, Engineering or Economics and who are considering applying to a top university for one of these subjects. The course covers the same topics as the single mathematics course but does so in considerably more depth and the skills that are so developed are highly valued by top universities.

Students taking Further Mathematics find it to be an enjoyable, rewarding, stimulating and empowering experience. It provides a challenge and a chance to explore new and/or more sophisticated mathematical concepts as well as enabling students to distinguish themselves as able mathematicians in the university and employment market.

50% of Further Maths content is Pure Maths which will introduce new topics such as matrices, differential equations, polar coordinates and hyperbolic functions as well as extending the calculus and algebraic topics encountered in the Mathematics A-level course.

The remaining 50% is split between further study of both Mechanics and Statistics.

Assessment:

Examination will be by written exams at the end of the course. This will consist of two, three hour, papers one on Pure Mathematics and one on Applications of Mathematics.

Pre-U courses are graded on a nine-point scale (rather than the six-point A*- E scale at A Level). There are three Distinction, three Merit and three Pass grades. The three levels of Distinction grade are equivalent to or beyond that of an A grade at A Level, and so the very best candidates are able to distinguish themselves by gaining higher grades than are available at A Level.