

### Launceston College Sixth Form

Part of the Athena Learning Trust

# Further Mathemátics

Subject Information For admissions in September

### **Further Mathematics**

#### Course Title: Further Maths (7367)

Exam Board: AQA

Qualification Title: A-Level Further Maths

#### Specification Link:

www.aqa.org.uk/subjects/mathematics/asand-a-level/further-mathematics-7367/specification-at-a-glance



#### Unit titles:

**Paper 1:** Pure mathematics only

**Paper 2:** Pure mathematics only

#### Paper 3:

Made up of two optional applied mathematics units. At Launceston College we teach you mechanics and discrete mathematics

#### **Assessment:**

The A-Level further mathematics qualification is linear which means that students will sit all their exams at the end of the course. The 3 exams are 2 hours each with equally weighting. Exam questions draw on the content studied over the two years of the A-level course.

#### **Topic descriptions:**

The further mathematics course is designed to develop mathematical argument, language, proof, problem solving and modelling. The pure mathematics topics are proof, complex numbers, matrices, further algebra and functions, further calculus, further vectors, polar coordinates, hyperbolic functions, differential equations, trigonometry, numerical methods. The mechanics topics are dimensional analysis, momentum and collisions, work, energy and power, circular motion, centres of mass and moments. The discrete mathematics topics are graphs, networks, network flows, linear programming, critical path analysis, game theory for zero-sum games and binary operations.

#### **Entry Requirements:**

To study A-Level further mathematics, you must have achieved at least a grade 8 at GCSE and a have a strong understanding of the algebra topics. You must also study A-Level Mathematics.

#### **Possible progression routes:**

A-level further mathematics is a good choice for students considering higher education in any Science or Maths-based course, ranging from: computer science, biochemical sciences, natural sciences, engineering, medical sciences and psychology to statistics, economics, accountancy, management and actuarial science.

#### **Equipment Required:**

You will be required to purchase a graphical calculator (£85-£100 estimate) and 4 course textbooks costing about £20 each; a revision guide (£8 estimate) might support you further. These can be purchased through school to keep costs down and you may be able to use a bursary

#### **Course Contact:**

Miss Sally Curtis scurtis@launcestoncollege.uk

## How to apply?

To apply to Launceston College Sixth Form please complete our online application form:

www.launceston-college.cornwall.sch.uk/sixth-form

Our admissions team will then be in contact to arrange a Sixth Form interview to discuss your options, your aspirations, and to provide advice and guidance on your next steps.

If you cannot access the website or would like to submit a paper based application please email or call.

sixthform@launcestoncollege.uk 01566 771855

Further details about all of the courses we offer can be found on our website.