



HEADLANDS SCHOOL
SINCE 1965

Headlands School,
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A Level Mathematics

Course Title: A Level Mathematics	LARS/QAN Code: 6031333X
Level: Three	Awarding Organisation: Edexcel
Delivery: Classroom based	Start Date: 8/9/2020
Location: Headlands School	Url: http://www.headlandsschool.co.uk/
Cost: Covered by EFA funding	Duration: 2 years
Full-time or Part-time: Full-time	Attendance: Daytime
Who is the course for:	
It is desirable that candidates achieve a GCSE grade '7' or above in Mathematics to be accepted onto this course as, without this level of prior attainment, students may struggle to make enough progress to achieve a good grade in this subject.	
Entry requirements:	
Typical grades needed 5 x GCSE grade 5 and above, including a grade 6 in the chosen subject.	
What you'll learn:	
This course will extend mathematical skills and techniques encountered at GCSE. Students will develop their understanding of mathematics in order to apply a rigorous and logical approach to problem solving. The course consists of pure and applied topics.	
There are three overarching themes:	
<ul style="list-style-type: none"> • OT1: Mathematical argument, language and proof • OT2: Mathematical problem solving • OT3: Mathematical modelling 	
The subject content is split into three main sections:	
Pure maths consisting of proof, algebra and functions, coordinate geometry in the (x,y) plane, sequences and series, trigonometry, exponentials and logarithms, differentiation, integration, numerical methods, and vectors.	
Statistics consisting of statistical sampling, data presentation and interpretation, probability, statistical distributions and statistical hypothesis testing.	
Mechanics consisting of quantities and units in mechanics, kinematics, forces and Newton's laws and moments.	
The qualification is linear, meaning that students will sit all their exams at the end of the course.	

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How you'll learn:

Mathematical techniques are modelled and discussed during lessons and then pupils develop fluency through completion of work during independent study time.

What you need to bring:

Stationery, paper, calculator and text books.

How you'll be assessed:

At the end of the 2 years pupils will sit 3 examination papers each of which lasts 2 hours. 2 papers will assess the Pure Maths content and the 3rd will assess the Applied Maths content.

Where next:

Career opportunities include Accountancy, Engineering, Computer Programming, Medicine and Teaching. Many employers recognise people with A-Level Maths as being excellent logicians and problem solvers.