



HEADLANDS SCHOOL
SINCE 1965

Headlands School,
Sewerby Road, Bridlington,
East Yorkshire, YO16 6UR

Tel: 01262 676198

email: admin@headlandsschool.co.uk

website: www.headlandsschool.co.uk

Headteacher: Mrs Sarah Bone

Mathematics

What will I 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:

- 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.

How will I 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.

Is there anything else I need to know?

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.

:PRIDE :ASPIRE :RESPECT



The Schools Network
ParentalEngagement
QualityStandard

 The Quality in Careers Standard >>>>

Future Opportunities?

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.