Maths

Why study MATHEMATICS?

Mathematics has served humanity in our quest to understand the world and extend the possibilities that this ever-changing world can offer. Mathematics underpins the atomic fabric of the universe: the principles and patterns of [illegible] allow us to search for meaning in the universe with greater precision.

Studying A level Mathematics will raise your confidence to tackle and solve increasingly complex abstract and real-life problems. Mathematics helps you develop your abilities to be creative, think with clarity and reason logically. Employers and universities value the skills and knowledge acquired through an A level in mathematics and research has shown that students who have studied A level Mathematics can earn around 10% more than students who have not studied the subject.

What is in a Maths course?

Exam Board: Edexcel

A Level

Three exams papers are taken for an award in A level Mathematics. Papers 1 and 2 assess pure [illegible] examination papers are equally weighted and last 2 hours. Calculator usage is allowed in all three papers.

Overview of content of A level papers:

Paper 1

Proof; Algebra and functions; coordinate geometry in the (x, y) plane; sequences and series; [illegible] trigonometry; exponentials and logarithms; differentiation; integration; vectors.

Paper 2

[illegible]

Paper 3

Section A: Statistics

[illegible] distributions; [illegible] interpretation; probability; statistical [illegible]; quantities and units in mechanics; kinematics; forces and Newton's laws; moments.

Which activities will I be engaged in during the course?

[illegible]

[illegible] ou to be able to work confidently with equations and graphs. As part of your study of

[illegible] set. The use of technology permeates the study of A Level

compute summary statistics and access probabilities from standard statistical distributions.

The third part [illegible]

- [illegible]
- Independently reading up on prior knowledge and new theories.
- Self-evaluating your understanding and misconceptions within a topic and taking actions to address any shortfall.
- Thinking and communicating with clarity using subject specific vocabulary.
- Constructing rigorous mathematical arguments (including proofs).