Mathematics

THE PARK ACADEMIES TRUST SIXTH FORM

Don't be anonymous...
...be remarkable

A level Mathematics is a highly influential subject which underpins several other subject areas such as Psychology, Sciences, Human Geography and Economics. You will develop logical thought processes as well as learning precise and accurate modes of presentation. Mathematics is an effective means of modeling, solving and interpreting a wide range of practical problems. The A level course will help you to develop the skills needed to apply mathematical thinking in real life situations.

A Level

56 UCAS points available

Student Profile

A successful student will need:

Grade 7 in GCSE Mathematics.

An enjoyment and understanding of algebraic methods of problem solving.

Resilience and an ability to cope when faced with a problem that takes several steps to solve.

Willingness to commit regular time to practise outside of the classroom.

Course Content - OCR (MEI)

A level Mathematics is a linear qualification with three main areas of study:

- **Pure mathematics:** including proof, algebra, logarithms, calculus and vectors.
- **Mechanics:** including kinematics, forces, Newton's laws and projectiles - this has strong links with Physics
- **Statistics:** covering probability, binomial and Normal distributions. Testing hypotheses also has strong links with Psychology and Geography

The course is run by OCR and is assessed with three two hour papers. There is no coursework.

Skills Gained

- Understanding of the mathematics that underpin many aspects of our lives.
- The ability to apply a range of mathematical skills to different situations and to analyse information.

Trips / Cultural Experiences

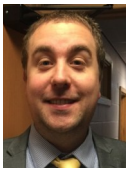
Mathematical proof - University of Warwick

Guest speakers including Simon Singh, author and biographer of Fermat and his Last Theorem.

The Future - What Next?

Mathematics is an entry requirement A level at many universities for students who hope to study any science or mathematics-based course, ranging from computer, biochemical, natural or medical sciences to engineering, psychology, economics and accountancy.

Mathematics is vital for a wide range of careers including: scientific research, engineering, software development, accountancy, market research, product design, internet security and project management. Mathematics students will typically enjoy a 5% to 10% higher salary than those who have not pursued an A level in Mathematics.



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