



*"The teachers have excellent subject knowledge and really make the lessons interesting, relating the subject to its real world applications where possible."*

# Maths/Further Maths

## A Level

Mrs Dennehy - Head of Maths  
[jde@st-mary.blackpool.sch.uk](mailto:jde@st-mary.blackpool.sch.uk)

### **Is this course for me?**

Mathematics is a fascinating and rewarding area of study. At St. Mary's each student works in an atmosphere that is both challenging and supportive. Knowledge of mathematics is fundamental to many areas of higher education; there is a national shortage of trained mathematicians. Mathematics complements studies in many areas such as the sciences, finance, economics and business, computer studies and engineering. Further Maths is offered as an Enrichment opportunity to selected students.

Entry into this course requires a minimum grade 6 at GCSE.

### **Areas of study**

100% examination. AS is a stand alone Year 12 qualification. The A level is examined synoptically at the end of Year 13.

Teachers use a range of collaborative learning methods where students are encouraged to discuss concepts and problems. A level maths consists of Pure Mathematics, Statistics and Mechanics. Pure Mathematics consists 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 consists of Statistical Sampling, Data presentation and interpretation, Probability, Statistical distributions, Statistical hypothesis testing. Mechanics consists of Quantities and units in mechanics, Kinematics, Forces and Newton's laws, Moments.

### **Future Opportunities:**

With an A-level in Maths you can do practically anything! Past students have gone on to follow university courses in subjects such as Maths, Physics, Medicine, Architecture, Aeronautical Engineering, Finance, Business, Economics, Computing, Law and Psychology; however, there are many other diverse areas where mathematical skills are recognised as invaluable and essential eg internet security, quantity surveyor, project manager. Employers highly value an A Level in Maths and on average, students who have an A Level in Maths can earn between 7% - 11% more than those who don't have the qualification.

### **Exam Board: Edexcel**

<https://qualifications.pearson.com/content/dam/pdf/A%20Level/Mathematics/2017/specification-and-sample-assesment/a-level-13-mathematics-specification.pdf>

St. Mary's  
Catholic Academy



6th Form

Apply online at [www.st-mary.blackpool.sch.uk](http://www.st-mary.blackpool.sch.uk)  
St. Walburga's Road, Blackpool, FY3 7EQ

Queries to [6thform@st-mary.blackpool.sch.uk](mailto:6thform@st-mary.blackpool.sch.uk)  
Tel: 01253 396286