

# MATHEMATICS

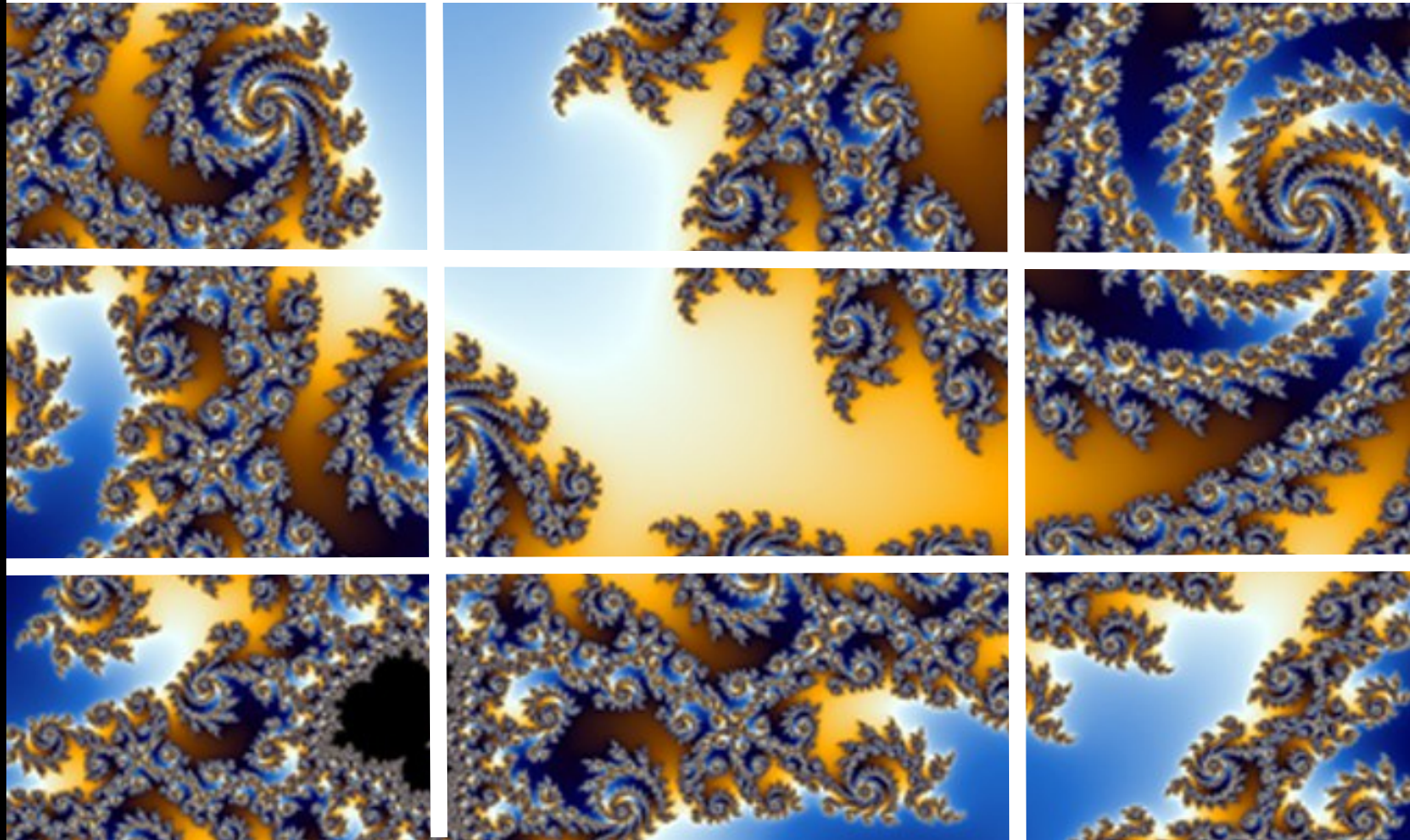
## A Level Course

### Description

An A-level in maths will impress both prospective employers and university admission tutors. It shows you can think logically, accurately process information, and skilfully manipulate numbers. During the course of your studies you will develop your algebra and trigonometry, learn how to differentiate and integrate in calculus and be introduced to the power of logarithms. You will also study both statistics and mechanics and apply some of the pure mathematics you have learned. Students also get to take part in the nationally recognised UKMT Senior Mathematics Challenge. A Level Maths is so well regarded that academics from the University of Nottingham found that pupils who take maths at A level receive an 11 per cent premium on their salary by the time they are 34 years and that no other A-level subject attracted a wage premium in the same way!

### Entry Requirements

GCSE Average: 4.8. GCSE grade 5 in English, grade 7 in Maths



### Progression

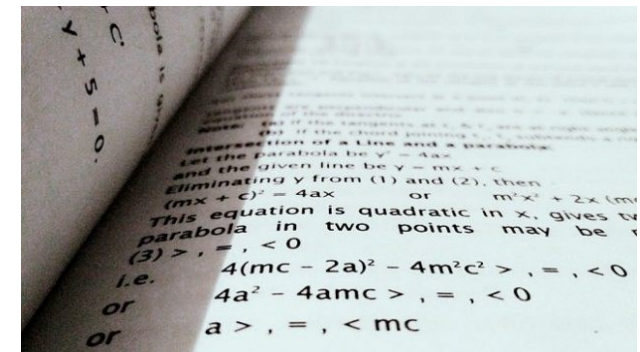
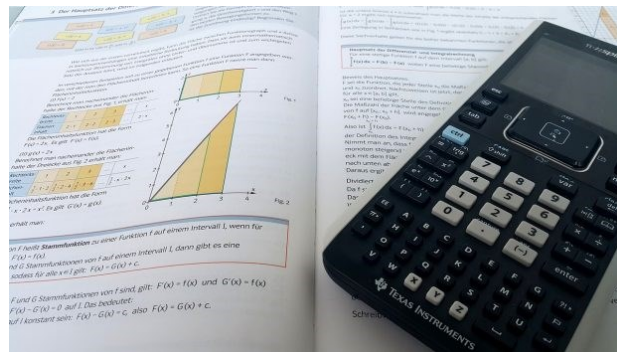
Mathematics is a versatile qualification, well respected by employers and a 'facilitating' subject for entry to higher education. Careers for those with good mathematical skills are not only well paid, but are interesting and rewarding. People who studied Maths are in the fortunate position to have an excellent choice of career. A-level Mathematics is one of the most widely accepted and respected subject choices by universities and is likely to enhance your options rather than close them down.



## Course Details

<b>Paper 1: Pure Mathematics</b>	<b>33.3% of course – 2 hours – 100 marks</b>	<b>Pure Mathematics</b> – algebra and functions, coordinate geometry, trigonometry, calculus, proof, sequences and series, logarithms and exponentials
<b>Paper 2: Pure Mathematics</b>	<b>33.3% of course – 2 hours – 100 marks</b>	
<b>Paper 3: Statistics and Mechanics</b>	<b>33.3% of course – 2 hours – 100 marks</b>	<b>Statistics</b> – statistical sampling, data presentation and interpretation, probability, hypothesis testing, statistical distributions <b>Mechanics</b> – kinematics, forces, Newton's laws, moments

***“Studying A-Level Maths has enabled me to solve problems in a logical manner and I find the real-life applications of Maths very fascinating.”***



## Further Information

**Course Leader: Mr O McCollin**

**[o.mccollin@holyfamily.waltham.sch.uk](mailto:o.mccollin@holyfamily.waltham.sch.uk)**

**Examination board: Edexcel**

**[www.qualifications.pearson.com](http://www.qualifications.pearson.com)**

