

# MATHEMATICS

## A Level

### Why Study This Course?

- You find mathematics interesting and enjoy problem solving.
- You want to understand how mathematics can be used in a variety of contexts and situation.
- You want to pursue a rewarding career related to mathematics in fields as diverse as engineering, data science, logistics, finance or just about anything really.
- You just love the subject (and so do we)



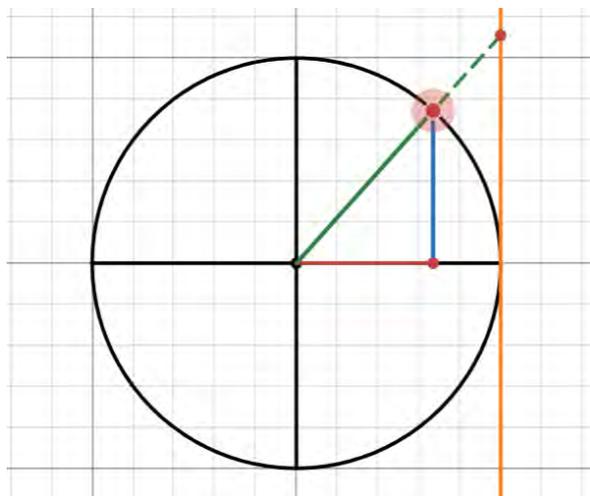
### Career Progression

- Mathematics develops highly employable skills that are desirable in many careers. Being able to think Mathematically is highly valued by employers.
- Mathematics is often a course requirement for degrees such as Engineering, Physics, Computer Science and Economics.
- A Mathematics degree is the obvious next step to open up a world of opportunities, courses available from grades C upwards.

### What You Will Study

A level Mathematics is split into three sections; Pure, Mechanics and Statistics. The majority of the course (around two thirds) is Pure Mathematics. This will take topics covered at GCSE into newer territory, whilst introducing novel concepts. You'll explore familiar functions like the trigonometric of polynomial functions in greater depth, extending your knowledge; applying them in new and interesting ways. You'll also discover newer functions such as exponentials and logarithms and be introduced to the strange new world of calculus. We hope you will start to see how even simple equations can be used to model and explain the world around you!

The rest of the course focusses more on these applications through the study of mechanics and statistics. Mechanics is the branch of mathematics that seeks to apply equations to movement and motion. Statistics looks at how data can be modelled and analysed to help make evidence informed decisions about anything we can collect information on!



## Why Parris Wood?

### Vision

We believe all learners can succeed in A level Mathematics. Our role is to distill the curriculum into core principles, supporting students to develop essential skills. These include problem solving, analytical thinking and statistical reasoning, alongside softer skills like resilience, communication, and teamwork. We aim to show how maths applies beyond the classroom, helping make better decisions in work and life.

### Curriculum

We've designed an innovative curriculum that embraces the linear nature of the current A level. Unlike modular approaches, which often rush challenging content in the second year, our course introduces key concepts earlier. This gives learners more time to understand and apply them. The second year focuses on using these ideas in varied contexts, both practical and abstract.

### Teaching

Our teachers use evidence-informed strategies to ensure accessibility for all learners. Staff engage in ongoing professional development through the Advanced Maths Support Programme. The current lead has a nationally recognised background in improving A level Maths education. Feel free to ask us more about our teaching methods.

### Resources

Structured course notes build a consistent revision resource from day one. Termly independent study packs, offer extensive practice opportunities. Learners access digital textbooks and Integral Maths; an online support platform.

If you like this subject you may also like:

Physics, F Maths, Economics, Computer Science

## Why I chose Mathematics

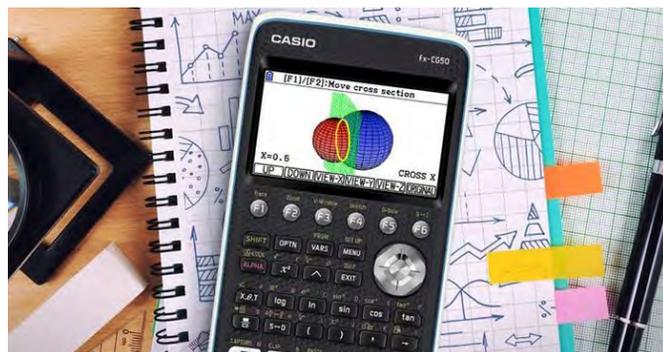
"I picked Maths because A level maths is valued highly by employers and looks great on a uni application. I enjoyed the course because it was challenging but satisfying. You are always mastering mathematical techniques while learning new ones. I would recommend the course to others because the teachers are friendly and always willing to help. It is a great classroom environment." - Ben (former maths student before moving to study Psychology at Rollins College, Florida)

## Assessment & Independent Study

Learners complete regular low-stakes assessments linked to homework, helping them prepare and identify areas for improvement. Teachers use feedback to tailor support and monitor independent study habits. Additional online and paper resources help students practise and build fluency in core techniques. Longer graded assessments throughout the year provide progress updates for students and parents.

## Enrichment

We offer talks from university and industry professionals, visits to universities, and participation in competitions like the UKMT Maths Challenge. These experiences help students see maths as engaging, challenging, and a gateway to exciting careers.



**Exam Board: EDEXCEL**