# CORE MATHEMATICS
## AS Level

**PARRS WOOD SIXTH FORM COLLEGE**

Big enough to thrive, small enough to care

## Why Study this course?

- You enjoy mathematics and develop confidence in using mathematics

- You want to study a mathematics curriculum that is integrated with other areas of their study, work or interest leading to the application of mathematics in these areas

- You want to develop mathematical modelling, evaluating and reasoning skills

- You want to solve problems some of which will not be well defined and may not have a unique solution

- You want to solve substantial and real-life problems encountered by adults

- You want to use ICT as an exploratory tool for developing mathematical understanding and when solving problems

- You want to develop skills in the communication, selection, use and interpretation of mathematics

## Career Progression

- Mathematics is a versatile qualification that is well respected by employers. Careers for successful mathematicians are often well paid as well as interesting and rewarding. Being able to think analytically and developing resilience through problem solving as well as thinking strategically are a highly sought after traits in employment. Excellent numeracy skills are also very desirable to employers.

- Core Maths is about students doing meaningful mathematical problems to increase their confidence in using mathematics to be better equipped for the mathematical demands of other courses, higher education and employment.

## What You'll Study

- Data
- Collecting and sampling data
- Representing data numerically
- Representing data diagrammatically

Maths for Personal Finance

- Numerical calculations
- Percentages
- Interest rates
- Repayments and the cost of credit
- Graphical representation
- Taxation
- Solution to financial problems

Estimation

- The modelling cycle
- Fermi estimation

- Critical analysis of given data and models
- Presenting logical and reasoned arguments in context
- Communicating mathematical approaches and solutions
- Analysing Critically

Critical path and risk analysis

- Managing multiple projects and managing timings

### Expectation

- Calculating probabilities

Cost Benefit analysis

- A systematic approach to estimating the strengths and weaknesses of alternatives used to achieve the best outcomes of a decision, project or policy

### Note:

This qualification is only taught and assessed over 1 year and is equivalent to half an A level so half the UCAS points of a full A level. This means you can choose to take it alongside 3 full A levels if you are very confident you will want to continue those subjects throughout your 2 years of study.

# Why study Core Mathematics at PWSFC?

## Why I chose Core Mathematics

For David, an engineering student at Langley East Berkshire College, Core Maths was mandatory for David and his fellow engineering students. He studied the course over one year. At Harrogate College, Paul chose Core Maths rather than A level mathematics, because he intends to study accountancy after college. He believed the applied focus of Core Maths to be more relevant to accountancy than A Level mathematics.

**If you like this subject, you may also like:**

Business, Economics, Sciences, Computer Science

To find out more you can visit our website:
**www.parrswood.manchester.sch.uk/sixthform**