

# A – Level Mathematics

## A-Level Maths Overview:

A-Level Maths will build on your GCSE knowledge, deepen your understanding of the subject and develop crucial problem-solving skills needed for life. Just as languages provide the building blocks and rules we need to communicate, maths uses its own language, made up of numbers, symbols and formulas, to explore the rules we need to measure or identify essential problems. Studying maths helps us find patterns and structure in our lives. Practically, maths helps us put a price on things, create graphics, build skyscrapers and generally understand how things work, or predict how they might change under different conditions.

Maths is a challenging yet highly rewarding subject to study, it requires hard work from the outset but you are well supported and guided by your teachers to help you to achieve the best possible grade and get the most out of your time studying Maths at Woodrush.

Some of the Topics Studied:

- Proof
- Algebra and Functions
- Sequences and Series
- Trigonometry
- Exponentials and Logarithms
- Differentiation
- Integration
- Sampling
- Probability
- Forces and Newton's Laws
- Kinematics



## Assessment:

- Paper 1 – Pure Mathematics 1 – 100 marks – 2 hours
- Paper 2 – Pure Mathematics 2 – 100 marks – 2 hours
- Paper 3 – Statistics and Mechanics – 100 marks – 2 hours

Each paper makes up 1/3 of the final grade.

## Entry Requirements:

Grade 7 in Maths and 66 in Science or a 6 in Chemistry and Grade 6 in Physics (separate sciences)

## Specification

[Edexcel A-Level Maths](#)



## Progression and Career Opportunities:

Studying A-Level Maths enables you to study many courses at University including – Maths, Physics, Chemistry, Engineering, Computer Science, Medicine, Architecture, Economics, Accounting and Finance. It has been defined as a top facilitating subject by The Russell Group which represents 24 leading UK universities.