

## Why do you have to study GCSE Maths?

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, this language explores the rules we need to measure or identify essential problems like distance, speed, time, space, change, force and quantities.

Maths helps us find patterns and structure in our lives. Practically, Maths helps us put a price on things, create graphics, build websites, build skyscrapers and generally understand how things work or predict how they might change over time and under different conditions.

As a subject, Maths is also continually growing and changing as mathematicians and scientists expand on what they already know to discover new theories and inventions.

## Skills/attributes developed/required:

Maths is one of the best subjects to develop your **analytical**, **research** and **problem solving** skills. Not only will studying Maths give you the knowledge to tackle scientific, mechanical, coding and abstract problems, it will also help you develop **logic** to tackle everyday issues like **planning** projects, **managing** budgets and even **debating** effectively.

## Examination Information

**Exam Board:** Edexcel

**Exam:** 100% Examination 1 x non-calculator paper & 2 x calculator papers

**Course content:** This will be dependent on whether you sit the higher or foundation course. Your teachers will decide the most appropriate course for you.

Foundation = Grades 1—5

Higher = Grades 4—9

## Where can it take me?

**Next Steps:** Continue to Level 3 Mathematics qualifications or apprenticeships

**Future career opportunities that this subject may lead to:** Level 3 qualifications in Mathematics lead to many degree courses or careers in Science, Engineering, Accountancy and Medicine among many others.

## What Key Skills will I gain by taking Maths?

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|---|---|
| <input checked="" type="checkbox"/> Analysing                   | <input type="checkbox"/> Independent Learning       |
| <input type="checkbox"/> Communication - Verbal                 | <input type="checkbox"/> Independent Thinking       |
| <input type="checkbox"/> Communication - Written                | <input type="checkbox"/> Listening Skills           |
| <input type="checkbox"/> Creative Thinking                      | <input type="checkbox"/> Presentation Skills        |
| <input type="checkbox"/> Debating                               | <input checked="" type="checkbox"/> Problem Solving |
| <input checked="" type="checkbox"/> Decision Making             | <input type="checkbox"/> Reading                    |
| <input checked="" type="checkbox"/> Evaluating                  | <input type="checkbox"/> Research                   |
| <input checked="" type="checkbox"/> Hands-On / Technical Skills | <input checked="" type="checkbox"/> Team Work       |