



**Notre Dame**  
CATHOLIC SIXTH FORM COLLEGE

## A-Level Mathematics

1. View our courses [here](#)

2. Exam board specification:

<https://www.aqa.org.uk/subjects/mathematics/as-and-a-level/mathematics-7357>

3. Suggested reading list, websites, pod casts, films etc.

Algebra skills are very important for any student who wishes to start A-Level Mathematics. You will sit an assessment in the first few weeks of your study at Notre Dame and it will focus on the following topics:

- Expanding brackets (single and double)
- Factorising expressions (linear and quadratic)
- Solving linear equations (including brackets, fractions etc)
- Understanding indices (fractional and negative powers)
- Surds (simplifying and rationalising)
- Factorising expressions
- Factorising quadratics (this is very important)
- Completing the square (again very important)
- Solving simultaneous equations (linear and quadratic)

There are some **excellent revision videos** at the address below.

<https://www.examsolutions.net/gcse-maths/algebra/>

You should watch all of them to help you complete the summer task which is linked at the bottom of this page.



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Alongside this, any student thinking about starting A-Levels should have a genuine passion for their chosen subjects.

There are many fantastic films, videos and books available which will allow you to see the many ways Maths influences our everyday lives.

A few examples are linked here:

[Hannah Fry – How to get lucky](#)

[Matt Parker – What happens when Maths goes wrong?](#)

[Hannah Fry – How to bend the rules](#)

[Matt Parker – 4D Maths](#)

## 4. A summer learning activity/task

You should complete the [SUMMER HOME LEARNING](#) task.

If you can print the booklet off at home then brilliant. If not, don't worry, just use any exercise book or writing pad and copy the questions up.

You should hand in this task in your first week as a student at Notre Dame.

We look forward to meeting you!