Studying A-Level Maths at Edgbarrow

2024 Edgbarrow Maths Results
60% A* - A

2025 Edgbarrow Maths Results
59% A* - A

2026 Edgbarrow Maths Results
58% A* - A

"A-Level Maths has been so rewarding and you learn many useful skills for the future."

"Challenging but extremely rewarding."

"It's one of the few subjects where I felt that I was rewarded for learning rather than arbitrary memorisation making progress highly rewarding."

All quotes are from past or current Edgbarrow Maths students

"I was really unsure how I was going to find A-Level maths but I think the content is a lot more interesting than GCSE and there is so much support at Edgbarrow. I can now push for grades I never thought I would achieve and I am really enjoying the course."

What are the options?

A level Mathematics

Extends GCSE Maths and introduces new ideas

Entry requirements: **Grade 7**

AS/A level Further Mathematics

An additional A level to add breadth/depth

Entry requirements: **Grade 8**

Level 3 Core Maths

Develops maths skills and knowledge to focus on applied problem solving

Entry requirements: **Grade 5**

Why study Mathematics?

Leads to versatile qualifications
well-respected by employers and higher education

Develop key employability skills
e.g. problem-solving, communication, logical reasoning and resilience

To support the study of other A levels
E.g. Psychology, Biology, Geography (and more)

Excellent preparation
for a wide range of university courses

Increase knowledge and awareness
of mathematical techniques and their applications

Stimulating and challenging courses
evidenced positive effect on cognitive development



Why study Mathematics?

Leads to versatile qualifications
well-respected by employers and higher education



“Maths is everywhere and is the most applicable subject, especially for other STEM subjects.”

“A-Level maths is a challenging subject which incorporates problem solving and resilience skills. For the little time I’ve been doing it I’ve found it difficult at times but equally very rewarding when I solve a solution. I would highly recommend choosing the subject as it can be useful for many jobs and universities love to see that you have the skills in A-Level maths.”

Why study Mathematics?

"I took A-level maths because of the variety of options this subjects gives you post A-levels. Yes it's difficult and you don't take this subject without knowing that, but maths opens your gateway for universities, apprenticeships and much more."



Develop key employability skills
e.g. problem-solving, communication, logical reasoning and resilience

"Maths is super helpful for any applications to universities as it indicates that you have a thirst for challenges and problem-solving while also demonstrating a logical side to your character."

"It helps you build a new understanding and appreciate the satisfaction of problem solving."

"It opens a lot of career pathways, even ones which don't directly use maths because of the problem solving skills it develops. It also supports any other mathematical or scientific subjects that you do."

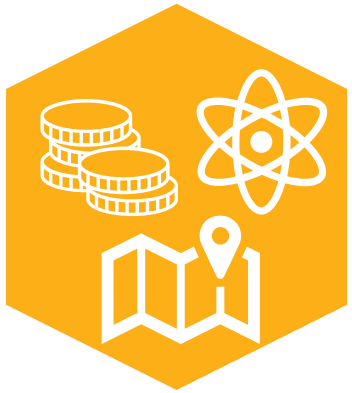
"I deeply enjoy the objectiveness of maths and the process of using whatever tools or formulae I have to solve problems."

Why study Mathematics?

"Maths is really useful because it works well with any combination of subjects and gives you problem solving and critical thinking that are useful for any A-level."

"Maths is helpful when stats tests come up in other subjects like Biology or Psychology, as you'll already have been taught in depth how to do them!"

To support the study of other A levels
E.g. Psychology, Biology, Geography (and more)



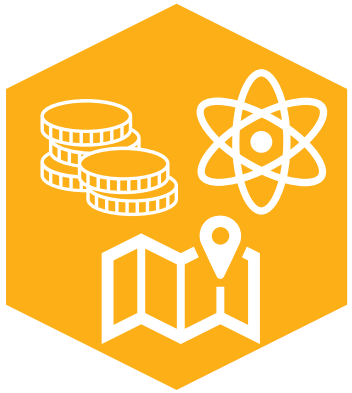
"The calculator is the single coolest thing I own. Taking Maths A-level also gives you a significant advantage in other subjects (as does having the calculator). It makes you feel very confident and smart being able to understand formula and notation that was utter gibberish to you a year ago."

"A-Level Maths is really beneficial for other subjects, including Biology, Economics and Physics, where the Maths you learn works alongside some elements of the course."

Why study Mathematics?

“As a current Year 12 student, I am finding A-Level Maths challenging but additionally rewardingly satisfying when you find the correct answer. I would advise anyone with the skills set and resilience to take A-Level Maths as it is highly recognised by Universities and corporations which will be very useful in the steps after Sixth Form.”

“It is very useful for all STEM subjects, even if the subject doesn't say its required.”



Excellent preparation
for a wide range of university courses

“Consider the fact that Maths can be an academical backbone for many future courses you might want to take - engineering, design, navigation, even flying a plane. It's an everyday essential, would you prefer the hard work now and the enjoyment later, or the opposite?”

Why study Mathematics?

“I think taking A-Level maths is a good opportunity for requiring skills and gives you a significant career advantage. It is also a valuable qualification for university admissions and is seen as one of the highest level A-Levels to take. Maths also helps with understanding finance and gain a deeper understanding of logic.”

“Maths isn't just numbers, it’s in most of our daily lives. Having a good understanding of how it works, even the bits that seem unapplicable, is extremely useful for every walk of life.”

Increase knowledge and awareness
of mathematical techniques and their applications



Why study Mathematics?

"Out of all the subjects I took at A-Level, I will miss Maths the most. It's applicable to so many things, and I have definitely come out of my Maths A-Level with so many new skills."

"Maths is an engaging A-level that challenges you differently to other subjects whilst being favoured by universities. The pace and structure of the course is equally interesting discovering new ideas and thinking about maths in a different way to GCSEs."

"The content becomes more challenging, but I find it much more rewarding because you have to understand why methods work. I particularly enjoy the feeling of being able to solve a difficult problem that initially seemed to stump me."

"Maths is a very rewarding subject, the effort you put in will show. It's a subject with a good balance between challenge and skill, so you don't really get bored of it. If you're confused or don't understand something, just go to Funbus. The teachers make asking questions very accessible."



Stimulating and challenging courses
evidenced positive effect on cognitive development

These university courses often require Maths A-Level

- Mathematics
- Statistics
- Physics
- Engineering
- Actuarial Science
- Computer Science
- Economics

“Since I was unsure whether to take A-Level Maths, I emailed the admissions officer of the university course I wanted to apply to, who told me that around 90% of those who received offers had taken A-Level Maths. I highly recommend checking with universities, as Maths is an incredibly versatile subject that can keep your opportunities open and build problem-solving skills, especially for those with an interest in any sort of science.”

“A-level Maths is THE Swiss army knife.
Now I'm not saying everyone should take it, but those of you that do, you have opened more doors for yourself than I can really mention.”

These university courses value Maths A-Level

- Finance
- Data Science
- Accounting
- Architecture
- Geophysics
- Geology
- Earth Sciences
- Environmental Science
- Biological Mathematics

But make sure you investigate specific courses/universities if you know what you want to do!

Maths A-Level is useful for these courses

- Biochemistry
- Biomedical sciences
- Radiography
- Forensic Science
- Pharmacy

What is in A level Mathematics?

All of the content in the AS/A level Mathematics qualification is compulsory and is the same for all examination boards.



What is Pure Mathematics?

Methods and techniques which underpin the study of all other areas of mathematics, such as, proof, algebra, trigonometry, calculus, and vectors … enabling us to solve real world problems.



What is the least amount of metal you need to make a cylindrical can that holds 330ml of fizzy drink?

What is Statistics?

Reaching conclusions from data in order to make informed decisions to help plan for the future.

“The majority of private sector organisations believe the use of data analytics will be the most important factor in increasing growth in UK businesses”

What is the probability of two ‘100-year floods’ happening within the space of 5 years?

What assumptions have you made?



What is Mechanics?

The modelling of the world around us, the motion of objects and the forces acting on them.

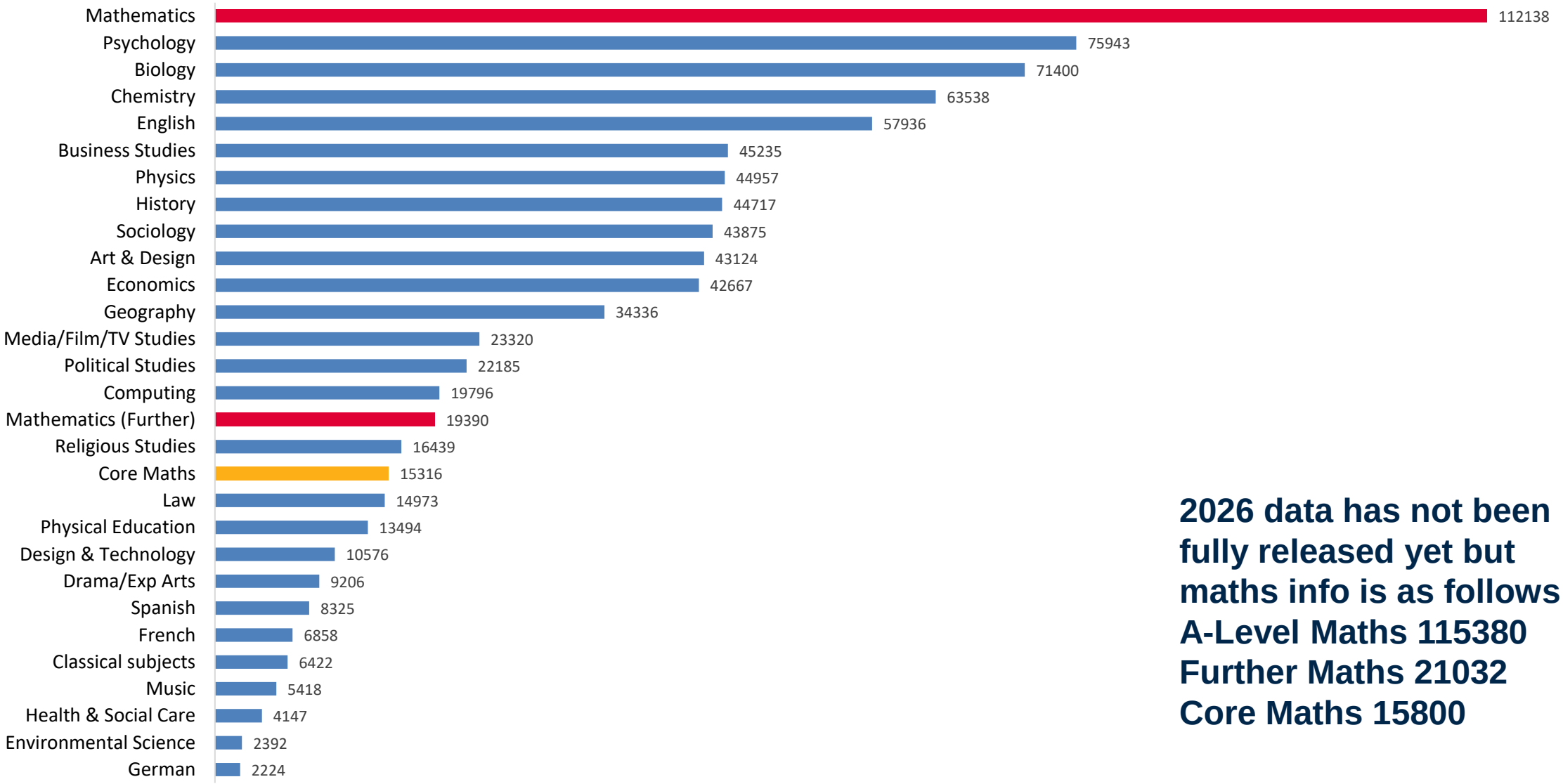
A golfer drives their ball from a tee on horizontal ground so that it has an initial velocity of 50ms^{-1} at an angle of 40 degrees above the horizontal.

How far down the fairway will the ball land?



Particularly useful for careers in physics or engineering

2025 UK A level entries by subject plus Core Maths



2026 data has not been fully released yet but maths info is as follows:
A-Level Maths 115380
Further Maths 21032
Core Maths 15800

Edgbarrow Subject Choices (top 5)

- 2024-2026

Maths (54)

Criminology (48)

Biology (33)

History (31)

Geography (31)

- 2025-2027

Maths (69)

Criminology (52)

Business Studies (46)

Psychology (45)

History (40)

- 2026-2028

Maths (63)

Criminology (56)

History (45)

Business (39)

Biology (29)

Maths is consistently the most popular subject selected at Edgbarrow

“A-level Maths has developed my critical thinking skills and resilience when completing tasks.

Funbus and all the extra help was very motivating and supportive.”

Maths content in other A levels

At least….

	Physics	40%		Chemistry	20%
	Economics	20%		Geography	20%
	Biology	10%		Business	10%
	Computing	10%		Psychology	10%
	PE	5%		Sociology	Analysing data

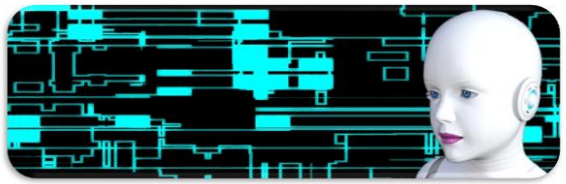
"A-Level Maths is not only a useful subject alone, but very applicable to a range of other subjects and helps improve your understanding of mathematical topics in those other subjects.
I personally found doing A-Level Maths very enjoyable, and I hope you do too."

Non-exhaustive list

Applications of mathematics

in technology





- Medical
- Game Design
- Internet Security
- Financial Cryptography
- Computing
- Communications
- Artificial Intelligence

in engineering



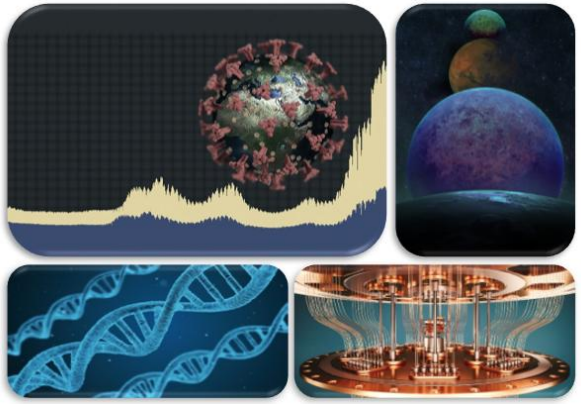



- Aerospace
- Fluid Flows
- Acoustic
- Software Development
- Electronics
- Civil Engineering.

Applications of mathematics

in scientific processes

- Modelling populations
- Modelling diseases
- Quantum Physics
- Astronomy
- Forensics
- DNA sequencing



relating to human behaviours









- Data Science
- Psychology
- Law
- Economics
- Climate Change
- Environmental Modelling
- Political Science
- International Development

Why study Maths A-Level at Edgbarrow?

"I really enjoy Maths at A-level here as the content we are learning is interesting and challenging and can be applied to areas in my other subjects, like mechanics in my Physics A-level classes. The teachers are all kind and approachable and the support offered if you are stuck is incredibly helpful such as Funbus on Tuesdays after school."

"The support and course structure is very well put together."

Our structure is very different to all other centres!
We teach things in a very different order.
Why? To give you more time to practise the harder topics.
We will get you doing A-Level questions from the start!
We make topics accessible and support with how to get the marks in the exam.

"Yes, A-Level Maths is difficult - but maybe not as difficult as you think. If you enjoy the satisfaction of solving complex and challenging problems, and are willing to put in the effort to revise and complete homework on time, this is a very interesting and rewarding course to take!"

"In my opinion, Maths is one of the most rewarding A-Levels but only if you are willing to put the time and effort into it. The Maths lessons were always fun."

What do students say after 1 month of A-Level Maths?

“The workload is greater than GCSE and some other subjects, but I've found the homework really useful for consolidating my knowledge and you do get used to it after a while.”

“I personally love A-level maths because there's close to no subjectivity to it. There's a clear solution and some steps you have to go through in order to get there. It's perfect for those who like problem solving. So far, it's not too difficult and definitely worth it.”

“The maths department offers so much support for the students, and it’s never embarrassing to say you’ve got the wrong answer because the teachers are always so welcoming and happy to help you and explain concepts to you until you get it right. Even if the workload is more than GCSE it’s also easier in a way, because when you need help it a real person helping you to explain it.”

“Maths is so broad; you can venture out into many different fields whether finance, or engineering and so forth. Believe it or not I actually enjoy learning about maths because it gives you a different perspective on how to look at things. It also develops your critical thinking and ability to manipulate problems to suit you!!”

You aren't in it alone!



"The things I like about Edgbarrow maths, as an external student especially, is the amount of support offered in the subject, and the support through websites and exam questions.
I also like how organised the course is, with the books and PLCs."

"Maths A-level has allowed me to meet the most amazing people, as well as being really useful for uni and degree apprenticeship applications. The Maths department are definitely a favourite across sixth form. Even things like funbus which we all laughed at on the taster day was really helpful."

"While the transition from GCSE to A-level is quite a step up and requires a lot more practice, everyone adapted to the new pace and style of learning very quickly, and as long as you are willing to ask, the teachers are always more than happy to help!"

"People always warned me about the 'jump' between GCSE and A-level Maths, but the teachers make the change easier and are always available to help."

"I have really enjoyed being part of the close-knit mathematics community at Edgbarrow"

"The course is laid out differently to how they teach it elsewhere so it can be more difficult to find questions for independent study but they provide plenty of resources and set a lot of homework so you'll always have something to review your knowledge on."

"Maths is great due to the teachers dedication to teach making it really easy to learn. Maths department is the hardest working department out there and will get back to you, mark things for you and help you quickly, efficiently and effectively."

What did last year's leavers achieve?

- Grade 9 GCSE -> Grades A* to A at A Level
- Grade 8 GCSE -> Grades A* to C at A Level
- Grade 7 GCSE -> Grades A* to E at A Level

Grade A* +	23%
Grade A+	58%
Grade B+	73%
Grade C+	88%

Last year Edgbarrow Maths students achieved in the top 10% across the country!