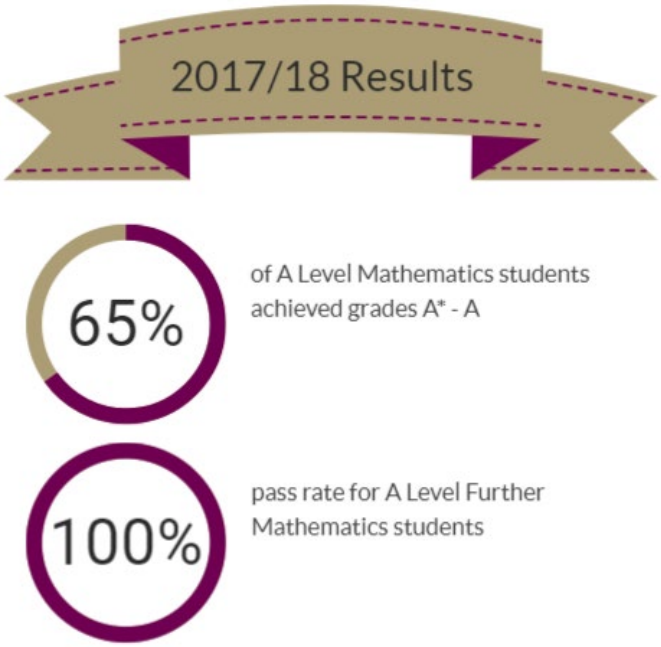
MATHEMATICS

WHY STUDY MATHEMATICS AT STONYHURST?



MORE THAN EDUCATIONAL EXCELLENCE

Top of the Class in UK Maths Challenges

UKMT Senior Maths Challenge:
3 gold, 9 silver and 19 bronze awards

UKMT Team Maths Challenge:
NW area champions 3 times in the last 8 years

We will help you to develop and share your individual gifts and talents, learn from others and to reach your full potential as both a student and a person, preparing you for a successful future, wherever it may take you.

WHAT WILL I LEARN?

Mathematics is a medium for learning to think algorithmically, systematically and independently.

You will learn to draw on a range of techniques to solve multi-stage problems in a variety of contexts, and to apply higher order thinking across a range of contexts and disciplines.

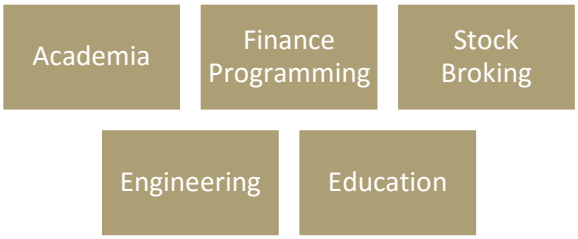
More importantly, you will get a glimpse of the underlying structure and observable patterns in the world around us.

Mathematics is an important and highly regarded subject in its own right, but it is fundamental to many other undergraduate disciplines, notably Physics, Engineering and Economics.

Other popular courses with a significant mathematical element include Geography, Biology, Medicine, Management and Psychology.

WHERE COULD IT TAKE ME?

Stonyhurst Mathematics graduates currently enjoy successful careers in:



WHAT DO I NEED?

- ✓ An appetite for problem solving
- ✓ A willingness to persist – intellectual stamina
- ✓ Ability to think independently
- ✓ A* or A at GCSE.

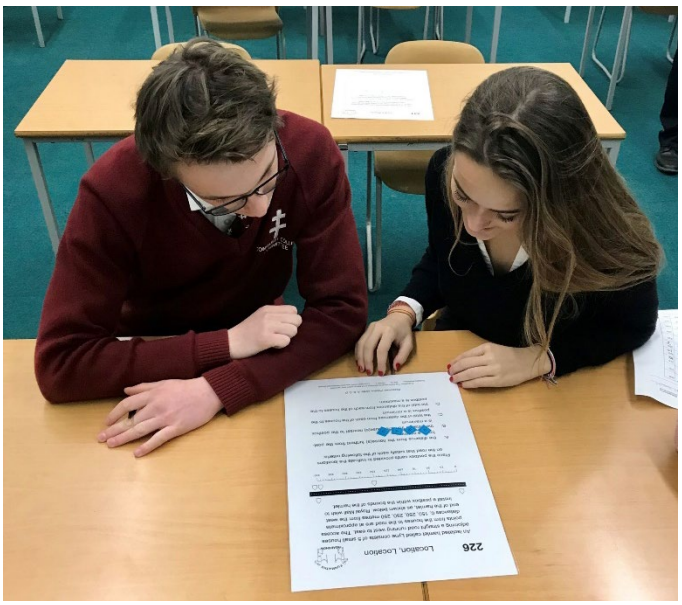
COURSE ENRICHMENT

- ✓ UKMT Senior Maths Challenge – takes place in early November and is taken by all pupils in Higher Line. There are weekly practice sessions in the department during period 6

- ✓ UKMT Team Maths Challenge – takes place in late November or early December. Teams consist of two members of Rhetoric and two members of Poetry. The winning team from the area events represent the area in the national final
- ✓ Annual Interline Challenge for each playroom
- ✓ Trips include problem solving days and lectures
- ✓ Occasional visiting speakers.

WHAT SUPPORT WILL I RECEIVE?

- ✓ Clinics – offered on Mondays, Tuesdays, Thursdays and Fridays in the department. These are drop-in sessions and are available to all
- ✓ Integral resources – you will have your own user account with video clips, interactive resources, past papers, extra exercises, online tutorials etc.
- ✓ IB students have their own Kognity account
- ✓ MyMaths – you may have your own MyMaths online account, if desired
- ✓ A-Level students have both a hard copy and an e-copy of the course text book, which is written specifically for each course by practising teachers and examiners.



WHAT COURSES ARE ON OFFER?

A LEVEL MATHEMATICS OCR SYLLABUS B (MEI)

The emphasis will be on pure mathematics, but there will also be some statistics and an element of mechanics.

A LEVEL FURTHER MATHEMATICS OCR SYLLABUS B (MEI)

In addition to developing the material seen in Maths, there will be an opportunity to study new branches of the subject such as numerical methods.

INTERNATIONAL BACCALAUREATE STANDARD/HIGHER LEVEL

In the current syllabi the emphasis is on pure mathematics in all three courses, but there is an opportunity to study some Probability and Statistics and to become proficient in the use of a GDC. New courses are being planned for September 2019. As yet release full details have not been released.

Our IB Diploma Programme is designed to produce highly-educated all-rounders who embrace social responsibility, intercultural awareness, and a duty to local and global communities to make an increasingly complex world a better place.

LDS

www.stonyhurst.ac.uk

JESUIT SCHOOLS

STONYHURST