



Year 12



# THE TRINITY CATHOLIC SCHOOL

MATHEMATICS KS5  
INFORMATION BOOKLET



# CURRICULUM INFORMATION



Key Stage 5

Year: 12/13

Subject: Maths

Head of Department: Mrs Taylor

Which exam will students sit?	At Trinity we teach the Edexcel A-level Mathematics specification. Students will sit the Edexcel A-level Mathematics examination.
What are the key topics and when will they be taught?	The three areas of maths you will study are: <ul style="list-style-type: none"><li>• Pure Maths - Number, Algebra, Graphs, Calculus, Trigonometry, ...</li><li>• Statistics - Data, Graphs and charts, Probability, ...</li><li>• Mechanics - Velocity, Acceleration, Forces, Moments, ...</li></ul>
How are students assessed?	There will be 3 papers, each making up a third of the grade awarded. There will be 2 Pure papers and 1 Stats and Mechanics paper, each paper is 2 hours long and out of 100 marks. Dates for these papers will be released nearer the time.
What is the structure of the course?	You will have 2 teachers: <ul style="list-style-type: none"><li>• Teacher A (3 hours per week)</li><li>• Teacher B (2 hours per week)</li></ul> Both Teacher A and B will cover the Pure Maths content. They will teach different chapters from the text book. Then Teacher A will teach the Mechanics and Teacher B will teach the Statistics.
What resources are available to us?	Students will be receiving past papers throughout the course. Students will also be lent books for the course. However, here are some places you can visit to support learning: <ul style="list-style-type: none"><li>• <a href="http://www.edexcel.com">www.edexcel.com</a></li><li>• <a href="http://www.Desmos.com">www.Desmos.com</a></li></ul>

## Homework

Homework will be given once a week by each teacher. This could be online using DrFrost.org, past papers, assessed homework or work from your text book. This **should not** be the only learning you do at home. We recommend working through the mixed exercises as you go through the course. This will support your learning and any questions you have can be brought to your teacher during the first half of lunch in MA8 on Tuesdays and Wednesdays.

## **How to revise**

The best way to revise Maths is to do Maths by practising questions.

- You should prioritise topics you find hard or can't do.
- Then when you get stuck you need to take action and find some help.

You can use paper but we also have revision workbooks available.

## **Organisation and folders**

At A-level you work on paper and in folders. You may have a book if you feel this works best for you, though you need to ensure you are able to hand in any homework that your teacher sets.

This requires some organisation.

We recommend the following:

- A ring binder folder for Pure Maths and Applied Maths - keep this at home
- File dividers (+ plastic wallets) to keep each chapter separate
- A smaller folder + plastic wallets to bring to school with your current chapter notes and homework.
- When you finish a chapter you then transfer these notes into your lever arch file.
- You also have the option of using an exercise book for each strands.



## **Learning formulae**

You will be given a formula book in the exam. You don't need to learn these formulae but you should practice knowing when and how to use them. There are other formula you will not be given and some proofs we would recommend learning. These will be signposted to you by your teacher when they appear.

## **The large data set**

Statistics involves the study of the "Big data set".

This is a large spreadsheet comprising of weather data which we will use to practise some of the statistics skills and there will also be questions using this data in the exam. Your Teacher B will introduce you to this in lesson but you need to familiarise yourself with it outside of the classroom too.

## Practice with the correct calculator

It is extremely important that students have the correct calculator, these can be purchased outside of school, but you can buy them from any Maths teacher.



## Past papers

We will begin working through past papers in lessons and for homework, but you can try them now. The more effort you put into completing these, the more improvement there will be. You will get used to seeing different types of questions and how topics arise in exam situations.

## Get support

Students can contact their teacher to ask a question by email.

***The best way to get support is*** to come to Maths Club. Everyone is welcome to join the teachers on Tuesdays and Wednesdays in MA8 from 12.30 - 1.00pm. Students can bring along some work, a past paper or book from lessons and spend more time on tricky skills.

If we feel you are not achieving your full potential, we may make it compulsory for you to attend extra sessions after-school to improve your learning.