



**Progression to A Level Maths**  
**Jack Hunt School**  
**2024**

## Welcome to A level maths!

We hope you are looking forward to joining us in September. The following booklet will help you prepare to be successful at A level Maths.

In Year 12 you will study Pure Maths. To help prepare for that you should complete the following practise booklet. It covers GCSE content that we will base our A level Maths on. When you join us in September, we will begin with a baseline test to see how well you can recall and apply all that GCSE content so completing this booklet is the best way to prepare! Each topic is listed with its Sparx code in case you need some extra practise.

## Calculators

For A level Maths, we recommend you get a Casio fx – CG50. These are expensive but **very useful**. You may be able to use your sixth form bursary to buy this or get one second hand. If you think this will not be possible, you will at least need a Casio ClassWiz FX-991EX. It is less expensive but also does a little less. If you are unsure, please email Ms van der Ark or speak to your teacher as soon as possible in September.



Casio fx-CG50



Casio ClassWiz FX-991EX

## Other materials

Summer is long, and you may find yourself wondering about the future and how different Maths is beyond GCSE. The following resources may provide some direction:

### YouTube Channels:

- Numberphile
- 3blue1brown
- Stand Up Maths
- Veritasium
- TL Maths

### Online Resources:

- Intermediate Mathematical Challenge Questions and Past papers on UKMT website
- Dot and boxes is a classic mathematical game that can be played online (or on paper!)
- Towers of Hanoi is a classic mathematical puzzle you can play online.
- The following mini game: <https://ncase.me/trust/>

### Books:

- *Professor Stewart's Cabinet of Mathematical Curiosities* by Ian Stewart
- *Alex's Adventures in Numberland: Dispatches from the Wonderful World of Mathematics* by Alex Bellos
- *Things to Make and Do in the Fourth Dimension* by Matt Parker
- *Hello World: How to be Human in the Age of the Machine* by Hannah Fry