Induction Task



Mathematics

Essential Information

Exam Board: Edexcel Specification Code: 9MA0 Teachers: Ms Baker, Mr Budd, Ms Miles, Mr Northwood, Ms Miles, Ms Raynor

Reading

<u>Here is a link</u> to an extract from the book '1089 and all that', by the mathematician David Acheson. It gives a flavour of the power and creativity of mathematics beyond GCSE, and hints at some of the ideas you will meet in the course. We hope that it will whet your mathematical appetite!

Task to be completed:

In order to hit the ground running in September in A Level Mathematics, it is vital that you spend some time over the summer working on some key skills from GCSE Mathematics.

By <u>clicking on this link</u>, you will be able to access five banks of questions, as well as their answers. These question banks specifically target the skills that will be most useful for the A Level course.

We would like you to work through (at least!) the CIRCLED questions, showing full and clear working, and carefully marking your answers as correct.

At the beginning of each bank of questions, there are detailed notes to help jog your memory. You can also access the VIDEO SUPPORT document to access videos which will provide further support.

What you will need to submit:

Full and clear solutions to at least the circled questions from each of the five question banks, clearly marked as correct.

At A Level, the emphasis is much more on process and mathematical communication, so please rewrite any messy or unclear solutions as necessary. You will be doing lots of this during your A Level course, so there's no harm in getting started now!

What else could I do to prepare?

Read

- '1089 and all that', by David Acheson
- '17 Equations that Changed the World', by lan Stewart
- Any year one A Level Maths textbook!

Watch

• The Numberphile Youtube channel

Listen

- The 'More or Less' podcast, with Tim Harford
- The 'In Our Time' podcast: eg the episodes on Euclid, or P vs NP, or e

All tasks to be handed in during the first lesson of the subject in September