

## Bridging work for September 2021

### A Level Mathematics

#### Introduction:

Firstly, CONGRATULATIONS for choosing this highly rewarding A-Level subject. A-Level Maths at Anglo European School is not only interesting and enjoyable but is highly regarded by colleges, universities and employers.

The transition from GCSE Maths, however, can be quite daunting at first. You need to make sure you are comfortable with the basics BEFORE you start the course.

**As part of you being accepted onto the course, the Mathematics department expects you to complete the bridging work booklet over the summer.** You can download this from the school's website: <http://www.aesessex.co.uk/wp-content/uploads/2021/05/AES-Maths-bridging-work-2021-vs2.pdf>

The completed booklet will form a significant part of your assessment during your first few weeks with us, in September 2021.

If you need any extra help with the questions in the booklet, read the notes in each section carefully. If you are struggling on a particular section, check out the videos at the weblinks below. <http://www.examsolutions.net/gcse-maths/>

The weblink below is also really good as a source of fantastic revision resources in general: <http://www.physicsandmathstutor.com/>

Wishing you the best of luck for your GCSE results and looking forward to meeting you in September.

Mr T. Beedell,

Head of Mathematics

#### Further weblinks to help:

<https://alevelmathsrevision.com/bridging-the-gap/>

<http://www.cimt.org.uk/projects/mepres/step-up/index.htm>

CGP also produce a Head Start to A Level Maths workbook: <https://www.amazon.co.uk/Head-Start-Level-Maths-2017-2018-ebook/dp/B06XD29GX2>

**Extension:** <http://www.mrbartonmaths.com/students/aqa-level-2-certificate-in-further-mathematics/>

Habs A Level videos: [https://www.youtube.com/channel/UCyyRmnmgtgVy5Sm7\\_UiCLFgQ](https://www.youtube.com/channel/UCyyRmnmgtgVy5Sm7_UiCLFgQ)

Topic sheets: <https://alevelmathsrevision.com/a-level-maths-revision-notes/>

### Free online courses shared by universities:

<https://www.edx.org/course/a-level-mathematics-for-year-12-course-1-algebraic>

<https://www.edx.org/course/a-level-mathematics-for-year-12-course-2-calculus>

<https://www.edx.org/course/a-level-mathematics-for-year-13-course-1-functions>

<https://www.edx.org/course/a-level-mathematics-for-year-13-course-2>

### Reading List:

As a student who is choosing to study Mathematics at A Level, it is logical to assume that you have an interest in the subject. With that said, the following books may be of interest to you.

Alex's Adventures in Numberland by Alex Bellos

Cabinet of Mathematical Curiosities by Ian Stewart

The Num8er My5teries by Marcus du Sautoy

How Many Socks Make a Pair?: Surprisingly Interesting Maths by Rob Eastway

The Curious Incident of the Dog in the Night-time by Mark Haddon

The Penguin Dictionary of Curious & Interesting Numbers by David Wells

The Calculus Wars by Jason Socrates Bardi

The Code Book by Simon Singh

50 Mathematical Ideas You Really Need to Know by Tony Crilly