



SUMMER BRIDGING WORK 2024

Summer Bridging Work is an important part of your transition to Wilberforce Sixth Form College. This piece of work will count towards your effort grade. Please complete your summer bridging work in time for the start of term.

You are required to bring evidence in paper format and hand this into your subject teacher during your first lesson.

A Level Further Maths

OVERVIEW OF SUBJECT: Further Maths is a course for those who really enjoy studying Maths and want to study Maths related course at university level. You will study for the course alongside the A Level Maths course, which allows you to develop and extend methods and results learned in the Maths course. During the two-year course, you shall study three main areas; Pure, Statistics & Mechanics, where you will be constantly building upon concepts to help you access challenging but also exciting aspects of the course. In particular, the concept of complex numbers will challenge everything which you have learnt so far in Maths at secondary school!

Studying Further Maths is a useful qualification to have when it comes to applying for jobs, as it shows the employer that you have strong problem-solving skills, which could be applied to many situations. Studying Further Maths will be useful if you are thinking of a career in teaching (especially A Level), engineering, working with data (such as a data scientist), or a science related career.

ENTRY CRITERIA: To study A Level Further Maths, you will need to achieve at least a grade 7 for GCSE Maths.

LITERACY TASK: Research the topic of complex numbers, a topic which you will explore during the course. Consider the following points during your research:

- What are complex numbers? What are the characteristics?
- What are the rules for complex number arithmetic?
- What are the origins of complex numbers?
- What are the uses of complex numbers in Maths?

Write up your findings and aim for about 500 words.

NUMERACY TASK: Please follow the link and complete the task: [Bridging task FURTHER 2024.docx](#)

PROGRESSION OPPORTUNITIES

Below we have listed four careers linked to Further Maths. You are tasked to research the four careers, choose one that most appeals to you and write a 200-word essay as to why you feel this career would be most suited to you.

- Maths Teacher
- Actuary
- Statistician
- Data Scientist
- Engineer
- Transport planner

Faculty Head for Maths and Business

A handwritten signature in black ink, appearing to be 'C. Dunwoody', written in a cursive style.

If you have any queries regarding your Summer Bridging Work, please contact Chris Dunwoody via email CHD@wilberforce.ac.uk and he will aim to respond before your enrolment appointment.