WILBERFORCE
sixth form college

SUMMER BRIDGING WORK 2026

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 Mathematics

OVERVIEW OF SUBJECT Do you love the challenge of solving problems with numbers? Are you thinking of working in engineering or science? Do you want a better choice of career?

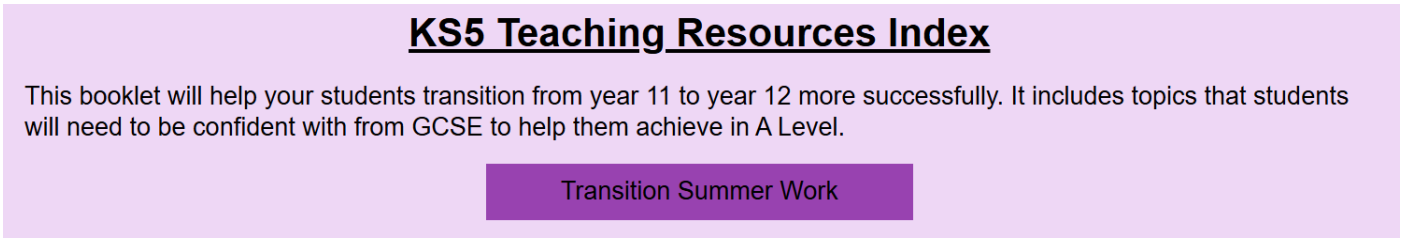
Maths is the purest science, providing support for Physics, Chemistry, Biology, Geography, Psychology, Sociology, Computing, Business Studies and Engineering courses. You will build on your existing knowledge of Algebra and Trigonometry and learn new skills in the study of Calculus, and you will develop your problem-solving skills.

Maths is one of the most useful courses to study, because most jobs and university courses involve Maths in some way. Employers and university lecturers know that you will have the ability to look at problems and challenges and find solutions.

ENTRY CRITERIA: To study A Level Mathematics you need to achieve at least a grade 6 on the Higher GCSE.

SUMMER TASK: Please follow the links below and download the activities. Please bring them to your first session in September.

KS5 resource index | PixiMaths click on the box labelled 'Transition Summer Work' as below. Please complete the booklet, you can either print the booklet or work on lined paper.



LITERACY and RESEARCH TASK: Research the topic of LOGARITHMS – this will be studied early in your first term, this is your preparation for it. You can use any resources you can find, and once you have made notes – to ensure you understand the topic, then please attempt the following exam questions;

Q1)

(i) Write down the value of $\log_6 36$.

(1)

(ii) Express $2\log_a 3 + \log_a 11$ as a single logarithm to base a.

(3)

Q2)

Given that $0 < x < 4$ and

$$\log_5(4-x) - 2\log_5 x = 1,$$

find the value of x.

(6)

Q3)

Find the values of x such that

$$2\log_3 x - \log_3(x-2) = 2$$

(5)

Q4)

(a) Given that

$$2\log_3(x-5) - \log_3(2x-13) = 1,$$

show that $x^2 - 16x + 64 = 0$.

(5)

(b) Hence, or otherwise, solve $2\log_3(x-5) - \log_3(2x-13) = 1$.

(2)

If you have any queries regarding your Summer Bridging Work, please contact Sarah Stainthorp via email SHS@wilberforce.ac.uk she will aim to respond before your enrolment appointment

We look forward to seeing you in September!

Kind regards

Teresa George

Faculty Head for Maths and Business