



# Summer Transition Work

## Mathematics

### Hoe Valley Sixth Form

Dear student,

Over the summer we want you to complete the following tasks below to help you make a successful transition from GCSE to Sixth Form study. Our summer transition work includes the following 3 elements to help you feel like a pro when your sixth form journey begins!

## Preparation

Below are some tasks that will help to introduce you to knowledge required for the start of the course or to consolidate key GCSE level material.

In preparation for your A Level you are expected to complete this booklet [Yr 12 Summer Transition Work.pdf](#) Complete the work on lined paper and bring it with you to your first lesson. Alternatively you may print and work on the booklet, or complete with KAMI and share with your teacher in the first lesson.

This workbook is designed to be used as a preparation for your AS/A level Mathematics course.

It consists of:

- Revision and practice of some GCSE topics that are important knowledge for AS/A level.
- Examples for you to complete.
- Practice questions.

There should be plenty of room in the example and answer boxes for your answers if you chose to print/work online. There are hints in the right hand column of some problems which you can cover up if you wish to complete the problems unaided.

Do not think you can work through this book in one attempt. It will be far more useful to attempt one section at a time and ensure you have all the rules and methods secure before attempting the next section.

## Reading

Below is some essential reading material or some titles that will help you to read around your subject and develop a deeper understanding of the subject, a crucial skill for success in the Sixth Form.

Sixth formers who take A level Further Mathematics earn on average £25,500 by the age of 24 which is more than any other A level. The highest-flying Further Mathematics students, those in the upper quartile of earnings, can earn up to £31,500 at that age. Read this to find out more - [Why it pays to study maths at A level - AMSP](#)

## Organisation

Below are tasks to help you to be organised with your work when you start in September. You will be completing a huge amount of work and to be successful you must keep on top of everything!

You must have at least one lever arch file per A Level (Mathematics and Further Maths if appropriate), with dividers for each element. It may be beneficial to separate the different elements (Pure, Mechanics, Statistics for A Level and Further Pure, Further Mechanics and Further Statistics for Further Maths) into separate folders entirely.

You must have an A Level appropriate calculator. We suggest the Casio FX-991CW Classwiz . Spend some time over the summer familiarising yourself with the functions as it is a newer model, with menus replacing some of the functions which were previously just a button. An introductory video can be found here

<https://education.casio.co.uk/resources/videos/new-classwiz-calculator-keys-fx-991cw/>