

## **Elevate Transition - A Level Mathematics and Further Mathematics**

A Level Mathematics is made up of three strands; Pure Mathematics, Mechanics and Statistics. We will begin the year by studying the Pure content, which will require a good understanding of GCSE algebra.

**During the second week of term you will sit a baseline test**, which will assess your skills and understanding of key algebraic skills from GCSE Maths.

**The transition work, which you need to complete and bring to your first lesson**, will help you prepare for this. Details are given below.

### **Tasks:**

The single most beneficial thing you can do before starting your A levels is make sure you are completely confident with the GCSE Mathematics content, in particular the algebra, graph sketching, Pythagoras and trigonometry, but also proof, vectors, probability and circle theorems.

In order to prepare you for the course, we have prepared a transition booklet to help you secure your key algebraic skills with surds, indices, quadratics and simultaneous equations. You should read and work through the examples carefully, taking notes. You then need to complete all of the exercises on paper, showing your working. You must mark your work using a green pen and bring them to your first Maths lesson at the beginning of term.

The transition booklet is available here: <https://bit.ly/3tR7Sss>

### **Extension tasks:**

Here is a nice problem solving exercise to get you thinking:

<https://nrich.maths.org/content/id/8301/Kite%20in%20a%20Square.pdf>

If you find the transition booklet hard, or want extra practice, the AMSP provide extra help with transition that can be found here:

<https://amsp.org.uk/teachers/11-16-maths/transition-to-level-3-maths>

You could also watch the videos and practise questions from

<https://www.mathsgenie.co.uk/gcse.html> focusing, on grade 7-9 topics.

### **For September you will need to bring to every lesson:**

- A **Casio fx-991EX Classwiz calculator**. You must buy your own - this has important new features not needed at GCSE.  
For Further Maths you may wish to buy a graphical calculator instead of the Classwiz. We recommend the Casio FX-CG50 (£100 approx. new, cheaper 2nd hand).
- An A4 Maths folder with dividers
- Your own equipment: pen, pencil, mini whiteboard pen, ruler, your own paper and red and green pens for marking.