

AS/A Level Mathematics Summer Work



You will be starting an A-Level Maths course in September, and it is important that you are ready for the step up. The best way to prepare yourself is to make sure you have a firm grasp of the knowledge and skills you have already developed at GCSE level.

There are a number of key skills which you need to make sure you are confident with before starting the A-Level course - these are used regularly in the Core 1 and Core 2 modules and it is essential that you are not struggling with basic skills when you are trying to learn more advanced material for the first time.

You need to be confident with the topics before starting the A-Level Maths course:

- Basic Algebra (non-calculator)
- Quadratic Functions (non-calculator)
- Equations And Inequalities (non-calculator)

These are all GCSE topics so there is nothing here which you have not already covered.

Task 1

For each of the topic areas listed above, there is an interactive review resource which will introduce the aspects of the topic and then give you the opportunity to try some questions. Even though these resources are online, you should have a pen and paper nearby for your working. You are expected to complete the 3 interactive resources on the following link and record your results on the assessment sheet.

Website: www.cimt.plymouth.ac.uk/projects/mepres/step-up/default.htm

Task 2

Write a short report and present a 5 minute presentation (without the use of ICT) on **set notation**.

