

AS Mathematics Induction Assignment

AS Maths builds on the skills you developed in GCSE Maths, with a particular focus on algebra and graphs. It's important that we can move on quickly to the new content, so we don't want to spend a lot of time at the start of the year revising GCSE – that's going to be your job.

Your task is to make sure you are ready to go in September. We will check this by giving you a test in the second week, which will be very similar to the attached assignment.

This assignment is a selection of Higher Tier questions, all of which cover skills you will need in AS Maths – either right at the start or very early on. You should be familiar with all of them, although some of them may need more practice or support. The answers are given – so you can mark the work yourself. **We expect you to check your work, and to show that you have marked it.**

We will give you some help/revision in September. We expect you to come to the first lesson with your completed assignment, ready to ask for help on any specific questions you didn't manage to do. We will take in the assignment – not to mark it (as you will have done that already), but so we can look at how you set your work out. **We expect you to show full workings for all the questions** (not just a single answer). Where the questions are multiple choice – explain how you decided.

As well as making sure that you are ready mathematically to start the course, this assignment also introduces you to the style of learning you can expect in AS Maths – working independently, checking your own work, and using lessons to get detailed help where you are stuck.

Working with others is strongly encouraged. It's not important whether you can do all these questions immediately by yourself, or if you spend a lot of time revising and getting help. What matters is that you can do them for yourself in September, so if you don't get the answers straightaway, it would be a good idea to practice similar questions.

If you need help completing this assignment, or more questions to practice, you could

- Use your GCSE notes, revision guides and past papers
- Use online resources, for example
 - Hegarty Maths
 - Mr Barton
 - Khan Academy
 - <http://www.mathcentre.ac.uk/resources/uploaded/2009algebrarefresherv4.pdf>,
 - <http://www.cimt.plymouth.ac.uk/projects/mepres/step-up/> .
- Talk to other students – we'll be encouraging you to work together next year

Good luck, and see you next year

Mr John Stevens

KS5 Coordinator (Maths)

josteve@monkswalk.herts.sch.uk