

A level Mathematics

Congratulations on choosing to study A level mathematics at Newport Girls' High School. To ensure that you are well prepared for the successful journey that lies ahead it is important that you have a sound knowledge of the fundamental skills from GCSE maths.

Before you begin the course, there are 10 tasks that you need to complete.

You are going to need the skills from GCSE maths from day 1. If you don't have a good grasp of these skills you need to work on them NOW so that you can start A level maths with confidence. Even if you are feeling super assured about your mathematics it will be beneficial for you to practise these skills to ensure that you are ready to apply them to new and challenging problems. There are solutions you will use to mark your work and videos to support you with your learning.

- Follow the link <https://alevelmathsrevision.com/bridging-the-gap/> to find the work
- You will need to print a cover sheet (on the next page) and fill it in as you do the work
- You will need to complete all 10 tasks
- You can do your work in a folder or exercise book
- You will need to **present your work neatly** and **show all your working**. The method is more important than the answer.
- You need to mark your work, clearly showing correction in green pen
- You will need to redo any questions you find challenging so that you are **fluent with all the skills**.
- You will need to **bring** your completed work to **your first lesson**.

In addition to completing the tasks you might find it useful to purchase either of the following textbooks (please note it is not compulsory)

- Head Start to A-level Maths (CGP)
- Bridging GCSE and A-level Maths (Collins)

To give you an idea of what you will be covering over the next two years, feel free to take a look at the specification:

<https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/mathematics-2017.html>

For reference we follow the Edexcel courses both for maths and further maths. We will provide you with a login for an online copy of the Pearson textbooks when you start in September.

The calculator requirements for A-level are more advanced than for GCSE as you might expect; the maths department recommend the Casio ClassWiz FX-991EX (you may have already had it for GCSE), which is widely available at various shops or online including Amazon. Note: you **do not** need a graphical calculator for maths or further maths however if you are interested in getting one I would advise talking to your teacher in September first.

The maths department hope you have an enjoyable summer and we look forward to seeing you in September.

NGHS A-level Mathematics Cover Sheet

Name: _____

Previous School: _____

Topic	Date completed	Percentage	If first attempt less than 85%		
			Date Watched Videos	Date completed	Percentage
Rearranging formulae					
Indices					
Surds					
Factorising quadratics					
Algebra					
Completing the square					
Inequalities					
Straight lines					
Further straight lines					
Algebraic fractions and cancelling					