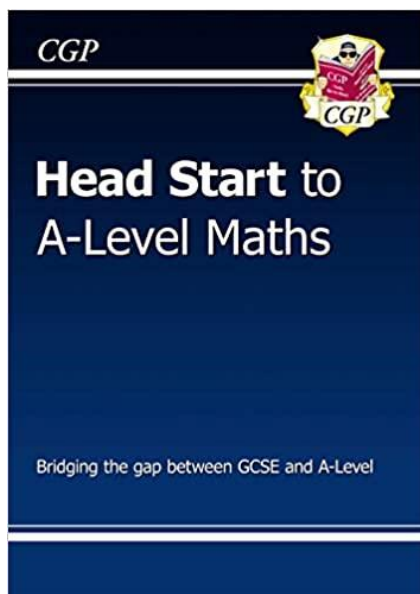


# Mathematics A Level

A Level Mathematics represents a significant step up in challenge from GCSE, it builds on much of the knowledge and skills students have acquired during their school years and takes it all much further.

As such it is essential for students to have a firm grasp of the majority of GCSE maths, particularly all the algebraic techniques, as well as trigonometry, graphs and geometry, to be able to make a good start to the programme.

An excellent way to do this would be to make use the **CGP Head Start book**



This book is currently free on Amazon in Kindle Format:

<https://www.amazon.co.uk/Head-Start-Level-Maths-20172018/dp/1782947922>

You can download a free kindle reading app from the app store on your phone or via the windows store to read it on your computer.

## **Student guidance**

The first four weeks of the course will each end in a test covering the week's materials. Some of this content you will have covered before, some will be new, challenging and dependant on a strong working knowledge of the previously covered content. So, it will be important that you make sure your skills in these areas are sharp.

Week 1: Indices and Surds and related topics

Week 2: Quadratic Equations and related topics

Week 3: Simultaneous Equations, Inequalities and Curve Sketching

Week 4: Transformations and Equations of straight lines

## **Additional Resources**

If you are looking for further materials, the following websites offer a variety of appropriate alternate study opportunities

**Maths Genie** – Offers questions with solutions and video explanations of the topics

<https://www.mathsgenie.co.uk/newalevel.html>

**Dr Frost Maths** – Much of the same, but will require (free) registration

<https://www.drfrostmaths.com/>

**UKMT** – If you're looking for something of a more extra-curricular nature then the senior maths challenge past papers are currently free to access

<https://www.ukmt.org.uk/>