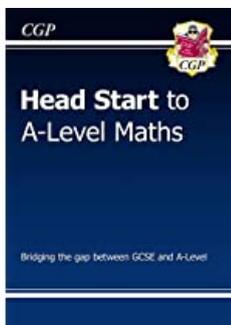


# Maths

## Progression to A Level Maths at Prior Pursglove College

The Mathematics department has recommended those interested in studying Maths as an A Level to purchase the following book:

### Head Start to A Level Maths



It's a big step up from GCSE Maths to the new A Level Maths courses - which is why we've rustled up this brilliant Head Start book! It recaps all the crucial topics students will need to remember from GCSE and gives them a taste of how they're used at A-Level. Packed with study notes, examples and practice questions, it's the perfect way for students to get off to a flying start in September.

## Where to find this book

This book is currently free on Amazon in Kindle Format: <https://www.amazon.co.uk/Head-Start-Level-Maths-2017-2018/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.

Look inside

CGP

Head Start to A-Level Maths

Bridging the gap between GCSE and A-Level

New Head Start to A-Level Maths (CGP A-Level Maths) Paperback – 16 Mar 2017

by CGP Books (Author, Editor)

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Level & Subject: AS/A

First Teaching: September

It's a big step up from GCSE Maths to the new A Level Maths courses - which is why we've rustled up this brilliant Head Start book! It recaps all the crucial topics students will need to remember from GCSE, and gives them a taste of how they're used at A-Level. Packed with study notes, examples and practice questions, it's the perfect way for students to get off to a flying start in September.

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# Advice for New Year 1 students

These are the topics we will be looking at in the first few weeks of the term (up to the end of September) from the A level textbook we use:

Chapter 1      Laws of Indices and working with Surds

Chapter 2      Quadratic Equations:

Involves factorising a quadratic, completing the square, solving quadratic equations, sketching graphs of quadratics and modelling using quadratics.

Chapter 3      Solve simultaneous equations in two variables by elimination and by substitution, including one linear and one quadratic equation\

Chapter 4      Solve linear and quadratic inequalities in a single variable and interpret such inequalities graphically, including inequalities with brackets and fractions

Represent linear and quadratic inequalities such as  $y > x + 1$  and  $y > ax^2 + bx + c$  graphically

## There are a number of good websites you can look at, including the following:

**GCSE to A Level Transition:** <https://amsp.org.uk/resource/gcse-alevel-transition-resources>

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

Has revision for the whole course and you can find these topics there, including notes, work sheets. Answers and videos

**Study wise** – still set up for the old modular course but has video tutorials on these topics

Use this page <https://studywise.co.uk/a-level-revision/>

Concentrate on C1 edexcel

### Revision maths

#### Algebra section

<https://revisionmaths.com/advanced-level-maths-revision/pure-maths/algebra>

#### GCSE to A Level refresher page

<https://revisionmaths.com/level-maths/gcse-level>

### Corbett Maths

<https://corbettmaths.com/contents/>

There are lots of sections and I have chosen a few to list

Algebra - completing the square/ the equation of a circle/ expanding three brackets/ indices/multiplying terms/algebraic fractions

Equations - all sections here are useful

Factorisation - quadratics/ quadratics harder/splitting the middle/ difference of two squares

Indices - all sections

Inequalities - all sections

Linear graphs - all sections

Quadratics - all sections

Sequences - nth term/ nth term for fractional sequences/ patterns

simultaneous equations -all sections

Surds - all sections

trigonometry - all sections

Types of graphs - all sections

Additional topics

Proof - all of it

Composite functions

Quadratics

Equation of the tangent to a circle

Iteration

Arithmetic and geometric progressions

inequalities

Quadratic nth term (2 lots here)