

TALLIS 16+

THOMAS TALLIS SCHOOL POST 16 CENTRE

TRANSITION READING LIST

SUBJECT: A-Level Mathematics

Background work

THIS IS ESSENTIAL. EVERY SINGLE ASPIRANT MATHEMATICIAN **MUST UNDERTAKE THE WORK BELOW.** There are six sections to it and each section will take about three hours. You **must** find eighteen hours over the summer to work through this material.

<https://amsp.org.uk/teachers/11-16-maths/transition-to-level-3-maths/essential-skills/> Getting off to a good start in A-Level Mathematics is impossible without reasonable basic algebra and algebraic manipulation and visualisation skills. Unfortunately it's possible to get a decent grade at GCSE and yet have a skillset that's not up to standard. Without all of the skills specified above, you will fail A-level maths – there's no point going on with the course unless we know that you can cope because you have completed the necessary preparatory work at GCSE.

The work on this website is only GCSE standard and you should already have been taught all of it. Top up, fill in the blanks, remind yourself! There are six sections to the work below, and each section will take about three hours to complete. We recommend that you mix up the tasks and space them out. Spend half an hour a week on each of the six sections below for the six weeks of summer. That's half an hour a day of maths. Let it add up!

Please note: we set an algebra test on this GCSE material at the end of the second week of Year 12 and **if you do not pass it your place in an A-level maths class will be withdrawn.** We will reassign you to another A-level or BTEC subject where there is space instead.

Further work

Revision Videos – Further Maths This link takes you to the Further Maths Wales website which has lots of good stuff on it. There are very many Maths revision videos with worked examples, covering a range of key topics at A-level Maths and Further Maths.

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[Post-16 Students \(maths.org\)](#) This link takes you to the [nrich.maths.org](#) website, run by the University of Cambridge, one of the greatest centres of mathematical learning on Earth. There is a wealth of material here, ranging from the introductory to the very very difficult, and a lot of reading recommendations too.

[A level maths teaching resources](#) | [Underground Mathematics](#) Mathematics is a subject about the very deep connections between things, connections conceived of as abstract relationships of quantity, shape, measurement and number. This site offers a introduction to the interconnectedness of everything.

[brilliant.org](#), [integralmaths.org](#) Both of these sites you have to pay for, but there is plenty you can access just as a guest.