MATHEMATICS READING LIST

Y11S PREPARING FOR KS5 MATHEMATICS

Look out for Mathswatch tasks called 'key skills for AS maths' as well as the maths summer homework

Free on Kindle is the CGP Head start to AS maths

https://www.amazon.co.uk/Head-Start-Level-Maths-2017-2018/dp/1782947922

Y13S PREPARING FOR A DEGREE IN MATHEMATICS

Bridging Material

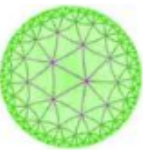Alcock, Lara *How to Study for a Mathematics Degree* (2012)

Allenby, Reg *Numbers and Proofs* (1997)

Earl, Richard *Towards Higher Mathematics: A Companion* (2017)

Houston, Kevin *How to Think Like a Mathematician* (2009)

Liebeck, Martin *A Concise Introduction to Pure Mathematics* (2000)

https://nrich.maths.org/university

Prepare for University - Pure Mathematics
Age 16 to 18 ★
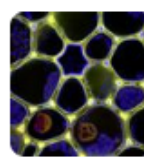
Helpful preparation for those intending to study a course involving pure mathematics at university.

Interactive Workout - Mathmo
Age 16 to 18 Short ★

Mathmo is a revision tool for post-16 mathematics. It's great installed as a smartphone app, but it works well in pads and desktops and notebooks too. Give yourself a mathematical workout!

Mathematical Preparation for the Cambridge Natural Sciences Tripos
Age 16 to 18 ★★★

This page gives advice on mathematical preparation for students who will be coming to Cambridge University to study Natural Sciences.

Prepare for University - Mathematical Physics
Age 16 to 18 ★

Helpful preparation for university for those intending to study physical sciences.

Prepare for University - Mathematical Chemistry
Age 16 to 18 ★

10 of our best problems to help you prepare to study chemistry at university.

Prepare for University - Applied Mathematics
Age 16 to 18 ★

Helpful preparation for university for those intending to study a course involving applied mathematics at university.

Maths in the Undergraduate Physical Sciences
Age 16 to 18

An article about the kind of maths a first year undergraduate in physics, engineering and other physical sciences courses might encounter. The aim is to highlight the link between particular maths topics (e.g. complex numbers) and their applications.

Advanced STEM
Age 14 to 18 ★

This collection of resources is designed for developing STEM at Post-16.

Prepare for University - Engineering
Age 16 to 18 ★

Helpful preparation for university for those intending to study engineering.

Prepare for University - Mathematical Biology
Age 16 to 18 ★

Helpful preparation for university for those intending to study biological sciences.