

Extract from Ramanujan's notebook.

# MATHEMATICS

## Course: Edexcel Mathematics A-Level 9MA0

### TASK 1, SPARX MATHS TRANSITION BOOKLET

Compulsory Task for Maths and Further Maths

This 60 page booklet contains all the fundamental skills from GCSE needed for A-Level and space to write in if printed. [Free GCSE to A-Level Transition Booklet \(sparxmaths.com\)](https://www.sparxmaths.com)

### TASK 2, GCSE TO A-LEVEL TRANSITION BOOKLET

Optional Task for Mathematics, Compulsory for Further Maths

A series of worksheets created by Edexcel with examples, questions and answers on every topic needed from GCSE for A-level Maths. Go to this link and scroll down to 'Transition Material'. Download the zipped file for all the worksheets in Word.

<https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/mathematics-2017.coursematerials.html#%2FfilterQuery=category:Pearson-UK:Category%2Fteaching-and-learning-materials>

### TASK 3, HEGARTY MATHS A-LEVEL TRANSITION LESSONS *Optional*

This playlist produced by Hegarty Maths contains 26 lessons that were ran live during lockdown in 2020. Go through each one and you will learn/revise all the key points from GCSE needed at A-Level.

[https://youtube.com/playlist?list=PLxHVbXhSvleR5tntP2FxBYBJCoY5-pD\\_Z8](https://youtube.com/playlist?list=PLxHVbXhSvleR5tntP2FxBYBJCoY5-pD_Z8)

### ADVANCED MATHEMATICS SUPPORT PROGRAMME RESOURCES

*Optional*

<https://amsp.org.uk/resource/gcse-alevel-transition-resources>

These resources are designed to help you to make the transition from GCSE to AS and A level Mathematics.

Many students say that they find the initial transition from GCSE to be challenging. These resources focus on key skills that will be used across the whole spectrum of AS and A level Mathematics. Each section includes:

- Skills checks
- A chance to practise and explore

### Some extra ideas you may wish to investigate further

There are six sets of resources, and each set should provide about 3 hours of work. If you really get engaged by the enrichment activities, you may want to spend longer than this. Each set includes either written worked solutions, video solutions or links to websites.

We hope you find these resources useful, that they add depth to your understanding, and that they help you make a smooth and successful transition to AS and A level Mathematics.

**CIMT – bridging the Gap from GCSE to A level**

*Optional*

A good range of resources targeting the skills areas of GCSE that will be needed for A level. <http://www.cimt.org.uk/projects/mepres/step-up/index.htm>

## RESOURCES USED

These resources can be arranged through the school and those with financial concerns will be assisted but a lot of students and parents do want to get ahead and buy things in advance. In that case the course materials used are.

### Calculator: Casio FX-991CW

There are more expensive calculators which can draw graphs for you. If you are interested in purchasing one of these please speak to your teacher before doing so as they can direct you to a suitable one that is allowed in the examinations.



### Maths Textbooks

Smith et al. (2017) *Edexcel AS and A level Mathematics Pure Mathematics Year 1/AS Textbook + e-book (A level Maths and Further Maths 2017)* by Pearson Education Limited

ISBN: 978-1-292-18339-8

Smith et al. (2017) *Edexcel A level Mathematics Statistics & Mechanics Year 1 Textbook + e-book: Year 1 (A level Maths and Further Maths 2017)* by Pearson Education Limited

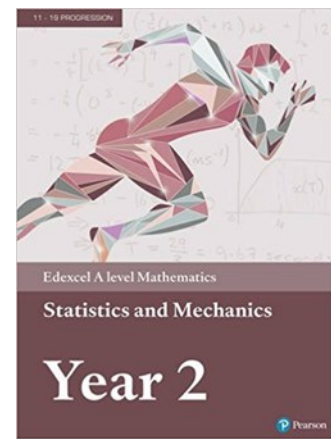
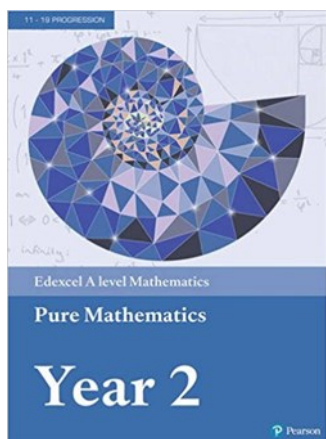
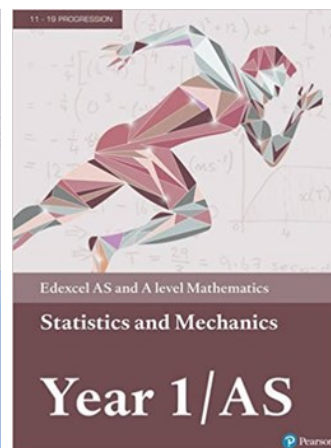
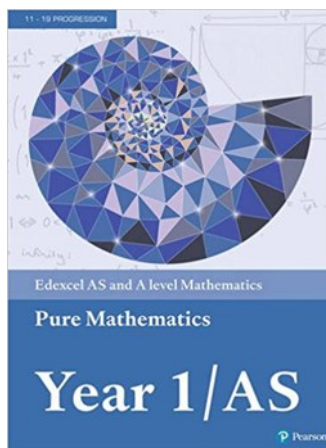
ISBN: 978-1292183282

Smith et al. (2017) *Edexcel A level Mathematics Pure Mathematics Year 2 Textbook + e-book: Year 2 (A level Maths and Further Maths 2017)* by Pearson Education Limited

ISBN: 978-1292183404

Smith et al. (2017) *Edexcel A level Mathematics Statistics & Mechanics Year 2 Textbook + e-book: Year 2 (A level Maths and Further Maths 2017)* by Pearson Education Limited

ISBN: 978-1446944073



*How to enrich your Maths beyond the curriculum*

## WHAT TO WATCH

*YouTube Channels to watch*

Numberphile  
3Blue1Brown  
VSauce  
Veritasium

## WHAT TO LISTEN TO

Breaking Maths Podcast  
In Our Time (BBC Radio 4)  
Opinionated History of Mathematics

## WHAT TO READ

- 50 Mathematical Ideas You Really Need to Know by Tony Crilly
- Alex's Adventures in Numberland by Alex Bellos
- Professor Stewart's Cabinet of Mathematical Curiosities by Ian Stewart
- Flatland by Edwin Abbott Abbott

## QUERIES

If you have any further questions regarding the course, please contact Mr Trevelyan: [maths@sacredh.lbhf.sch.uk](mailto:maths@sacredh.lbhf.sch.uk)