

## SUBJECT

Mathematics



### OUALIFICATION

Computer programmer

Finance / accountancy

Pure Maths - Calculus

Research the careers that follow on from doing Maths A-level

what career do you want to do? How will Maths A-level help?

Find out how these Maths A-level topics are used in real life:

(Scroll down to the "xlsx" link). What features and trends can

you find? Use the statistical methods from GCSE - mean,

Mechanics - Newton's Laws of Motion

Statistics - the binomial distribution

Part of the new A-level is the Large Data Set

median, mode, box plot, scatter diagram...

RESEARCH

Engineering

Pilot

Scientist Others...

A Level



### PREPARATION TASKS

Go through all of the higher tier GCSE algebra topics to check which ones you're good at and which ones you need more practice on

- Watch videos
- Practise skills
- Learn any formulas needed
- Test yourself with exam questions

### Online possibilities:

- Mr Barton Maths GCSE ebook
- Mr Barton Maths GCSE takeaway
- Mathswatch Your school's login required
- MyMaths Your school's login required

Book possibilities - Head Start to A-Level Maths (CGP books) Free kindle CGP book

Preparation for AS/A level Maths (alpha workbooks)

## RECOMMENDED READING



www.

### Books

"Humble Pi" by Matt Parker

"Alex through the Looking Glass" - Alex Bellos

"Can you solve my problems?" – Alex Bellos Various books by Ian Stewart

Sudoku – apps / newspapers [what are they?]

Puzzles / enrichment websites

Matt Parker maths puzzles

Senior Maths Challenge

Nrich

Area maze

# RECOMMENDED WEBSITES

Mr Barton Maths - GCSE students

Question pack

Mathswatch Your school's login required

MyMaths Your school's login required

**Maths Careers** 

STEM - Maths Careers

Senior Maths Challenge

Matt Parker maths puzzles

Large Data Set

Free kindle CGP book

Senior Maths Challenge

Nrich

Area maze

This research work is really useful to do, as it will help you to explore your options for college study. Please be aware that agreed courses will be finalised at enrolment after students have been awarded their GCSE results.