

"Although the main reason I chose to study maths was because I enjoyed the subject, it was also because I knew that having a BSc in this well-respected subject would give me an advantage for my future career."

"This work involves using a wide variety of mathematical techniques that I can bring to bear on the issue of global climate change." I am studying uncertainty in climate prediction models, with an aim of better understanding global warming. This work involves using a wide variety of mathematical techniques that I can bring to bear on the issue of global climate change.



"The aim of our project is to try to understand the cellular mechanisms of ageing and how these processes are affected by nutrition."



"I use mathematics every day to work out how to protect people from the effects of explosions."

I have served in Germany, Bosnia and Iraq and am currently training to be a bomb disposal operator. **Everything to do with** military engineering uses maths. To bring down a bridge explosively you need to know how much 'bang' it will take to shatter or cut c steel beam of a certain thickness

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What maths is involved in stirring a cup of tea?

A man who has thought a lot about the maths behind stirring cups of tea has won one of the world's most lucrative academic prizes.

Professor Sir Martin Hairer from Imperial College in London won the 2021 Breakthrough Prize for Mathematics by applying complex maths to simple situations - like stirring a cup of tea.

He says he plans to spend his £2.3m winnings on a house and hopes the prize will inspire others to develop a passion for maths too.

Mathematics can be found in the names of many Coldplay songs; including: Twisted Logic, Square One, Proof, One I Love, Major Minus and 42.

He studied maths and physics at Imperial College, London. Before becoming a huge hit with "Queen" Mr May, was a mathematics teacher!

Mathematics plays an increasingly large role in the development of new technologies

The only way to learn

mathematics

mathematics.

PAUL HALMOS

Intelligence is something you can increase.	Be keen to work hard and learn as much as I can.
There are differences in how quick different students develop competence in mathematical skills	Everyone with effort and guidance can improve and make progress.
Love learning something new and challenging.	Throw yourself into difficult tasks and stick at it. Set yourself goals and keep to them.

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- Practise your **weaknesses** using Mathswatch
- **Corbett Maths**
- On maths
- Learn Key Maths facts using knowledge organisers Ask your teacher for help

Work book–Practice writing solutions

The Big Picture – use topic lists to learn a new topic.

Exam Papers/Topic Tests – Rm 203/205 Study Buddy – peer/adult

Calculator Colour – Higher GCSE

Work out the answers to the questions in each separate section. Match up your answer to the colours in the grid below and colour in the section that colour.

Colour	Answer		
Brown	7		
Grey	30		
Pink	-2		
Blue	8.2		
white	45		
Green	5		
Light Brown	110		

www.missbsresources.com

Revision ideas

CREATE ACRONIMS

- KFC Keep, Flip, Change (Dividing Fractions)
- FOIL First, Inners, Outters and Lasts (Expanding Quadratics)
- TEAM Times to make the End Add to make the Middle (Factorising Quadratics)
- HISS Half in the Bracket Square and Subtract (Completing the Square)
- MARIAS Multiply And Reduce Increase And Share by (Differentiation and Intergration)

CREATE SONGS AND DANCE

- Circumference and Area of a Circle Song
- Squaring Numbers Song

Revision ideas

The lead up to mocks

- •Good attendance is vital
- •Organisation and independence
- Engaged in lessons

What are the two biggest errors people make when revising?

How to avoid the big errors

1. Studying things I already know

Prioritise

How to avoid the big errors

2. Just reading

Active methods of revising

- Mind mapping
- Flash cards
- Teaching others
- Make a story
- Pictures
- Past papers and mark schemes
- Web sites, media, study support

How long do I revise for?

Optimum revision time

How should you plan your revision?

- Only focus on your uncertainties and weaknesses
- •Session 1: 25-35 minute ACTIVE session
- •Session 2: 5-10 minute session a day after
- •Session 3: 5-10 minute session a week after
- •Session4: 5-10 minute session a month after

OCT 2021	Saturday	Sunday	monday	luesday	weanesday	Inursaay	riday
Week A	1 Finding areas of circles	2 Finding areas of circles 5 mins	3	4	5 Expanding brackets	6Expanding brackets 5 mins	7
Week B	8	9 Finding areas of circles 5 mins	10	11	12	13 Expanding brackets 5 mins	14
Week A	15	16	17	18	19	20	21
Week B	22	23 Finding areas of circles 5 mins	24	25	26	27Expanding brackets 5 mins	28
Week A	29	30	31	1 st			

KEEP CALM AND LOVE MATHS

Advice from previous students

Break topics down and work through them steadily – don't try and tackle all the information at once

Start finding the revision method that works for you as soon as possible.

Do paper after paper all throughout the year to drill out those silly mistakes

Cambridgeshire man, 92, passes GCSE maths exam with top mark

more funny stuff at FUNNYASDUCK.NET