



Stratton Upper School - Spring Term 2018

Maths Department Newsletter



Stratton Maths

Top News!

Some of our Year 9s, 10s and 11s have taken part in the most recent maths challenge!



GCSE Statistics is now an option for our students! This is a brilliant qualification for aspiring scientists and geographers.



50% of our Year 13 Further Maths students are going on to do a Maths degree!



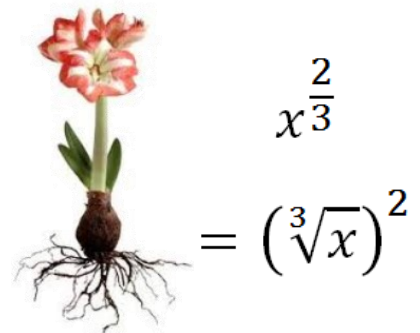
We are in the top 10% of schools nationally for progress for A-level maths and further maths.

Problem Solving Skills

- 1) Highlight key information
- 2) Work backwards
- 3) Organise information into a table
- 4) Write down useful formulas
- 5) Spot a pattern
- 6) Estimate first
- 7) Draw a picture
- 8) Make an equation

Revision Rhyme

Fractional indices are like a flower, the bottom's the root and the top's the power!



Extra Support

Maths Drop-in Sessions

Every Monday, Wednesday, Thursday and Friday lunchtime in room 21.

Websites

Topics & textbook - <http://strattonmaths.co.uk/>

Videos & practice - <https://www.onmaths.com/login>

Top tips - <https://corbettmaths.com/>

Past papers - <https://www.mathsgenie.co.uk/gcse>

Videos & practice - <https://vle.mathswatch.co.uk/vle/>

A Level - <https://2017.integralmaths.org/login/>

Extra Year 11 Support

To help the year 11s in the build up to their exams, we are offering regi-revision two days a week. Many teachers also offer afterschool support.

Student vs Grown-up

Can you answer these GCSE Maths questions.

1) $7 + 8 \div 4$

2) $20 - 5 \times 3$

3) Add brackets to make each statement correct

a) $9 + 2 \times 6 - 3 = 18$

b) $9 + 2 \times 6 - 3 = 15$

Hot Topic!

This year, the Maths Department introduced flipped learning for Years 9 and 10. So far, this has shown to have a really positive impact on lessons and assessment results. The new GCSE is 50-60% problem solving and reasoning so it is essential for students to spend time focussing on these questions in lesson.

AO1 is about using and **applying standard techniques**.
50% foundation
40% higher

AO2 has a different focus. It's about **reasoning, interpreting and communicating** mathematically.
25% foundation
30% higher

AO3 is about solving problems with a much greater focus on **solving non-routine problems** in mathematical and non-mathematical contexts.
25% foundation
30% higher

The Benefits of Flipped Learning

- 1) Students get less frustrated with their extended learning: the extended learning covers the basics of a topic and there are video tutorials for every question!
- 2) If the students don't understand the extended learning they can come prepared with questions
- 3) It allows chance for the topics to be explored deeper in lesson as the basics were already covered at home
- 4) Teachers are able to see before a lesson which students are struggling with a topic and direct their time appropriately
- 5) It offers parents the chance to see exactly what students will be doing in lesson.

Paper 1 80 marks 1h 30m



Paper 2 80 marks 1h 30m



Paper 3 80 marks 1h 30m



Dates for Your Diary

Week Beginning	Event
12th - 18th February	Half term
19th March	Core Mock Exams for Y11 and 6th Form Resit
2nd - 15th April	Easter Holiday
23rd April	Year 9 Mock Exams
14th May	External exams begin
24th May	Y10 Parents evening
28th May - 3rd June	Half term