

Harris Church of England Academy

Harris Drive, Overslade Lane, Rugby, Warwickshire CV22 6EA
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Headteacher Mrs Roberta Harrison



Dear Students,

In September you will be beginning Year 10 Mathematics. There are several considerations and expectations to bear in mind before this time.

Harris Church of England Academy expects all students to come to school prepared with their own equipment. The minimum expectations of student's equipment for attending maths lessons are:

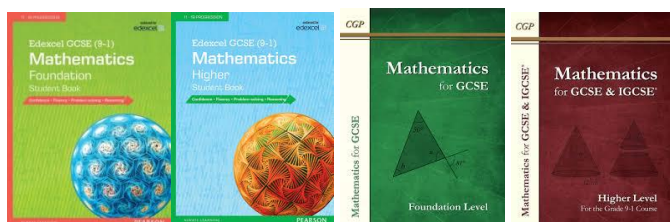
A pen, pencil, ruler, scientific calculator. It would also be beneficial if you also added to their pencil case: a protractor and pair of compasses.

You should already possess a scientific calculator by the time you reach year 10.

Please be aware that pupil premium students have already been provided with a scientific calculator prior to reaching year 10. It may be in a few cases that a pupil premium student has joined Harris Academy part way through their secondary education. If this is the case, it may be that they have yet to be provided with a scientific calculator. If this applies to you, please contact the maths department via email and we will seek to rectify this.

All students will be provided with a BBC Bitesize revision guide and a workbook at the start of year 11. Please note that at the beginning of year 10 pupil premium students will also receive a CGP revision guide.

The maths department use a variety of textbooks as well as a variety of other resources and materials for study in lessons. The following texts are sometimes used/referred to in class and although not mandatory purchases you may find them useful:



Edexcel GCSE (9-1) Mathematics Higher Student Book (Publisher is Pearson)

Edexcel GCSE (9-1) Mathematics Foundation Student Book (Publisher is Pearson)

Mathematics for GCSE Foundation Level (CGP)

Mathematics for GCSE & IGCSE Higher Level (CGP)



The Diocese of Coventry Multi Academy Trust.

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Other resources and information are available via a website that has been set up by one of the maths department. The first link is useful for maths websites:

<https://sites.google.com/harris.covmat.org/harrismaths-intranet/home>

The second link is to the main Harris website which contain the schemes of learning for mathematics. Please scroll to the bottom to see the relevant sheets, which contain Sparx codes (called topic codes). When typing these codes into the “Independent Learning” section of Sparx, you can revise these topics, without them being “set” for you.

<https://www.harris.covmat.org/mathematics/>

You will already be aware that you have your own individual folders for past tests and that there is a progress sheet that links to the scheme of learning. This can help you recognise areas for improvements and give some direction for revision topics prior to mocks and final exams.

A very valuable resource for year 10/year 11 students is <https://www.mathsgenie.co.uk/>

The top left tab of this website is useful to practice specific topics. The next tab along gives access to previous papers which are invaluable for revision and practice. Please bear in mind that revision is best done as “little but often” and should form a part of year 10’s and year 11’s extended or independent learning and practice. Revision should not be cramming in the few weeks before exams!

At Harris Church of England Academy, we value the inclusion of extended learning and just as in previous academic years of 7, 8, 9 we expect students to spend a reasonable amount of time on the weekly homework which currently is set on Sparx. We would expect at least 35 to 40 minutes to complete tasks.

As well as ad hoc face to face support outside of lessons when students can seek support from their teachers, there is a:

- Sparx homework club which will now run every Monday lunchtimes in maths (room M03). Please attend if you have any questions/concerns or require support to finish extended learning, or indeed just require a quiet space to finish your extended learning.
- Year 11 only mathematics workshop every Tuesday from 3.30pm to 4.30pm which is led and supervised by a small group of maths department teachers.



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We sometimes have questions from students about set moves and more significantly, the move from a foundation tier to higher tier. The two courses run side by side and although there is some commonality and “crossover” where topics and level of challenge may be similar, the higher mathematics scheme of work extends challenge and knowledge base significantly more. Please be aware that only the top two sets will cover the higher syllabus. Therefore, for students to be considered for a move from foundation to higher tier we the department must weigh up:

- How much time is left on the course/time left till exams
- Whether we believe the student will put in the extra time and effort to make the leap between the tiers and cover the content in time (this workload will increase the later that the student is moved up as an increased amount of higher content will have been missed whilst studying the foundation tier).
- Whether the student will attend the workshops regularly
- Whether the grade achieved in the first round of year 11 mocks (November) suggests a student can make the change and succeed on a higher paper to the extent that they might surpass a grade 5.



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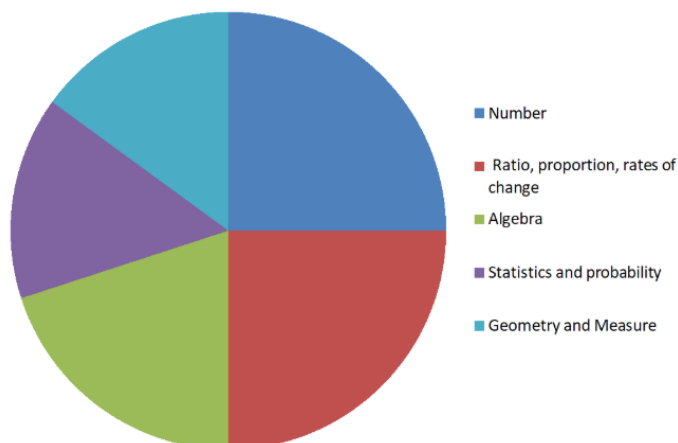
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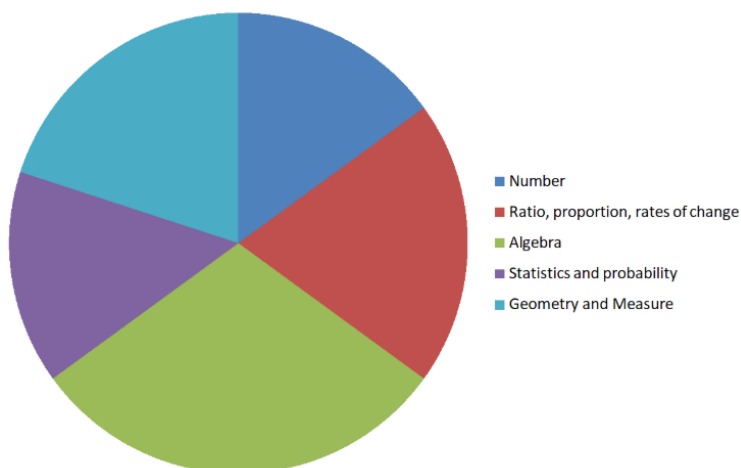
Regarding the weighting of strands of maths please also consider that particular attention is given to algebra and the topics involving number and numberwork in exams.

Foundation



Topic	%
Number	25
Ratio, proportion, rates of change	25
Algebra	20
Statistics and probability	15
Geometry and measure	15

Higher



Topic	%
Number	15
Ratio, proportion, rates of change	20
Algebra	30
Statistics and probability	15
Geometry and measure	20



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