

# Independent Study

In Mathematics and Further Mathematics you should...



## 1. After each lesson

Review the notes you made in the lesson and check that examples you have written down are fully understood. Complete a minimum of an hour of tutorial work from the exercises set by your teacher (two hours if this was a double lesson). After completing this work check your answers using the textbook and the step by step answers on kerboodle. If you have got any questions wrong try to identify your error and correct them. Make a note of any questions that you have not been able resolve to seek help in the next lesson.

## 2. Weekly

Complete the assignment of past exam questions that you have been given. If you are having difficulties with any questions get some help from a teacher. Do not copy solutions from other students as this will mean that you miss out on getting feedback on what you have or have not understood. Review the assignment you have been given back and make corrections. Seek help from a peer or teacher if you are not able to resolve any problems independently. Ensure your results from your assignment are recorded on the tracking sheet.

## 3. Fortnightly

Use the test yourself and purple assessment pages of the textbook to refresh skills you have previously learnt. If you have forgotten how to answer a particular type of question reread your notes and look at the examples you have in your notebook. Use [www.mymaths.co.uk](http://www.mymaths.co.uk) or one of the youtube channels below to remind yourself of techniques:

<https://www.youtube.com/c/TLMaths>

<https://www.youtube.com/@khanacademy>

## 4. Termly

Continue to revisit earlier work and complete practice exam questions.

Look for opportunities to extend your learning beyond the curriculum. You could complete a mooc

<https://www.mooc-list.com/categories/sci-mathematics> or read one of titles:

Why do Buses Come in Threes? - Rob Eastaway/Jeremy Wyndham

How to Cut a Cake? - Ian Stewart

Thinking in Numbers - Daniel Tammet

Closing the Gap: The Quest to Understand Prime Numbers - Vicky Neale

50 Mathematical Ideas You Really Need to Know - Tony Crilly

The Hidden Mathematics of Sport - Rob Eastaway/John Haigh

Fermat's Last Theorem - Simon Singh

The Music of the Primes - Marcus du Sautoy

## 5. Throughout the year

Ensure that your notes are complete and detailed. If you ever miss a lesson it is your responsibility to copy up notes from a colleague (taking a photo of their notebook and the copying these up is often the best approach). Make sure that your contents page is up to date as this will really help you when revising for tests. Complete past-exam papers as instructed to by your teachers in preparation for end of Year or final A-level exams