



## 6<sup>th</sup> Form Independent Study Guide

### Subject – **MATHEMATICS**

A level requires you as a student to undertake independent study outside of the classroom. As a department we would recommend 5 hours per week minimum of independent study (this time does not include time spent on homework).

To aid you with your independent study we would recommend you undertake the following:

- Review each lesson's notes and use the textbook to add to the class notes. At the end of each unit consolidate the notes to create a set of revision notes/mind- maps.
- Any questions not set by the teacher from the exercise could be attempted.
- Attend scheduled intervention if directed to do so and complete work from the pupil work drive (year 12)
- Use the websites that your school has directed you to ([www.mymaths.co.uk](http://www.mymaths.co.uk) , [www.physicsandmathstutor.com](http://www.physicsandmathstutor.com)
- [www.Glynnmaths.alevel.com](http://www.Glynnmaths.alevel.com) , [www.drfrostmaths.com](http://www.drfrostmaths.com) ) to work on additional questions for the topic you are currently studying in class or to revise past topics. Make a note of questions that you find particularly challenging and revisit them after doing further work to revise the unit.
- Complete past papers and hand them to your teacher for marking.
- Collect a selection of sample questions and assessments from the exam board websites. Cut out the questions and sort them by type. It is a valuable activity to just classify the question by determining what the question is asking you to do as this is something you will have to do quickly in the examination. Create a set of revision questions for each topic.
- Write a set of instructions/flow diagram for solving questions of a particular type. (E.g. solving questions that require you to find the equation of a straight line). These will prove invaluable at revision time. Designing a flow diagram for questions on a specific topic will help you appreciate all the different ways in which a particular method can be applied.
- Ask your teachers for Delphis and Solomon papers – these will stretch you on to the higher grades