## Prest6tynSixth

## **Independent learning tasks in Maths**

Review each lesson's notes and use textbooks to add to the class notes. At the end of each unit consolidate the notes to create a set of revision notes/mind-maps before completing the assessed homework.	
Use the websites that the school subscribes to, (www.mymaths.co.uk) 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.	
Collect a selection of sample questions and assessments from Jack Tilson or the exam boards website. 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 exam. 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.	
Imagine one of your friends has missed a lesson. Prepare a 'lesson plan' that you could deliver to your friend to teach that covers a specific objective. For example, how to differentiate a polynomial of the form y = ax <sup>n</sup> . Make sure that you include explanation, activities, questions, solutions and a homework!	
Create an activity similar to the ones we do in class: odd one out, matching, dominoes, hexagonal jigsaw etc. Use the questions from the class exercises, doing each question so that you have the answer, or create your own questions. Don't forget to do your activity, or get a friend to do it, to check that it works.	
Read the 'Sexy Maths' column in The Times. Follow Marcus du Sautoy on Twitter. Read books about mathematics – not textbooks but books that highlight the beauty and fascinating nature of mathematics. (see http://math-blog.com/2007/07/17/ten-must-readbooks-about-mathematics/) Immerse yourself in mathematics!	
Use TLMaths.com to revise topics. There is also a video for every topic.	