

# Year 12 Further Mathematics Curriculum

Autumn Term 2018-19



Curriculum Content	Assessment	What homework will they have?	I'm not an expert, so how can I help?
<p><b>What will my child be studying this term?</b> Students will follow the Edexcel specification for A level Further Mathematics. This is the new specification A level with 2017/18 being the first year of teaching. It is a two year course with no intermediate AS level.</p> <p>Students will focus on Core Pure Mathematics this term and will be introduced to a range of additional mathematics techniques over and above those of the standard Mathematics course. Later terms will offer options in respect of the additional element of the course (Further mechanics, Further statistics, Decision and/or Further Pure mathematics).</p>	<p>Progress will be formally assessed via half-termly written tests conducted in lesson time.</p> <p>In addition, written homework based upon past paper questions will be formally and formatively assessed approximately every 3 weeks.</p> <p>An extended assessment will take place at the end of the first term covering all topics covered to that point.</p>	<p>In addition to the formal written homework used for assessment (see left), teachers may also set smaller lesson to lesson tasks in support of a particular learning objective.</p> <p>Students may also be periodically asked to complete assignments on website "PiXL6" on which they have been registered. The results of their efforts are then visible to their teachers for feedback.</p>	<p>Ensure that students are well organised and are clear about their assigned tasks outside of lessons. Ask to see their work periodically - both the classwork and homework books.</p> <p>Ensure that students have ready access to the PiXL6 website and are making use of it.</p> <p>Enquire how they are using their supervised study periods and whether these are being used effectively.</p>
<p><b>Content covered:</b> Complex numbers, Argand diagrams, Series, Roots of Polynomials, Volumes of revolution, Matrices, Linear transformations, Proof by induction and Vectors.</p>			
<p><b>Literacy and numeracy:</b> Students are expected to maintain their own classwork and homework books (issued by the school) and to make adequate notes and annotated examples from taught lessons. Presentation and explanation of methods is critical to success at A level and this will be repeatedly reinforced throughout the entire course. Classwork and homework books will be inspected periodically throughout the year. In addition, presentation quality will be examined as part of all interim assessments.</p>			
<p><b>What can I do to help my child?</b> Regularly ask them how they are getting on. Encourage them to speak to their teacher if necessary or contact the teacher yourself if you feel that this would be appropriate. In addition, see comments above right.</p>			
<p><b>Additional resources and details of core texts used:</b> The Pearson "Edexcel AS and A level Further Mathematics" series of text books are used. These are newly purchased by the school as a consequence of the new specification. All students will receive copies of the textbooks for the duration of the course and which must be returned to the school on completion. Three separate textbooks will be required for each of the two years of the course. All students will also be enrolled onto the PiXL6 Maths support and Integral websites where they can access any part of the course at any time. The school may also use these resources for additional homework from time to time.</p>			
<p><b>Teaching group arrangements:</b> Groups are set according to subject options selected by students (Maths appears in multiple option blocks). Multiple classes within an option block may run if there are sufficient numbers of students.</p>			
<p><b>Where can I get more advice?</b></p>			

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