

## Tavistock College Sixth Form

When you sign up for a subject please note that you will be expected to study that subject for the whole two years. There will be a formal assessment in the Autumn term, after four weeks and that is the only time when students will be allowed to swap or change subjects. After this, too much will have been missed.

<b>Subject: Further Mathematics</b>		<b>Qualification: A Level</b>
<b>Exam board: Edexcel</b>	<b>Entrance criteria: Grade 7</b>	
<b>Topics covered include:</b> <b>Complex numbers – imaginary, roots of equations, argand diagrams,</b> <b>Proof by induction – divisibility results</b> <b>Matrices - transformations, determinants,</b> <b>Differential equations – modelling, second order and first order, integrating factor</b> <b>Hyperbolic functions – equations, differentiating,</b> <b>Vectors – planes, finding angles</b> <b>Volumes of revolution - modelling</b>		
<b>How the subject will be taught:</b>  <b>Teacher led</b> <b>Use of text books</b> <b>Use of past papers</b> <b>Consolidation using on line tutorials</b>		
<b>Expectations of students:</b>  <b>High levels of engagement. Independent work to consolidate class room work. (for every hour of class work – matched with an hour of independent work)</b> <b>High standards of presentation and meeting deadlines for homework</b>		
<b>Summer work:</b> <b>Complete the induction test.</b>		

(It is important for you to bring your completed summer work with you on enrollment day, and hand it into the subject lead or head of faculty.)