

## 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:</b> Mathematics <b>Maths in context</b>	
<b>Extra board criteria:</b> <b>Grade 5</b>	
<b>Topics covered include:</b> <u>1) application of statistics</u> Statistics is the study of the collection, organisation, analysis, interpretation and presentation of data. It is important to be comfortable and confident in dealing with real data. It is used in areas of study such as actuarial science, biology, business and economics, IT and psychology. <u>2) Probability</u> Probability is used to determine a numerical value for the chance or risk of events happening. Probability is used in areas of study such as finance, science, artificial intelligence, business, computer science and philosophy. <u>3) Linear programming</u> This is a problem-solving approach to achieve the best outcome (such as maximum profit or lowest cost) through consideration of conditions that can be modelled by linear relationships. <u>4) Sequences and growth</u> A mathematical understanding of growth and decay can be applied to a variety of real-life contexts including financial mathematics, population growth, epidemics, earthquakes and radioactive decay. <u>5) Financial Maths</u> This is where we look into percentages, excel and business studies.	
<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>N/A</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.)