

MATHS FACULTY

MATHEMATICS FACULTY – MATHS
YEAR 10 & 11

<i>Topic(s) covered</i>	
<p>Mathematics is taught in a five year programme of study.</p> <p>Under the each of the six main strands the following topics are included:</p> <ul style="list-style-type: none">• Number - Fractions, percentages, ratio and proportion, indices and surds, standard form, decimals.• Algebra - Equations and identities, formulae, sequences, graphs, quadratics, inequalities.• Ratio, proportion and rates of change – Scale factors, compound units, direct and inverse proportion, using gradient to interpret rates of change,• Geometry and measures - Area and volume, transformations, circles, trigonometry, Pythagoras, vectors, constructions.• Probability – The probability of events, averages• Statistics – Collecting and displaying data <p>The depth of study will be determined by the tier of entry.</p> <p>Mathematics is taught as a linear programme of study and is assessed by examination only (there is no coursework).</p> <p>The GCSE Mathematics exam consists of three papers taken at the end of Year 11:</p> <ul style="list-style-type: none">• one non-calculator paper• two calculator papers	<ul style="list-style-type: none">• Mathswatch - https://vle.mathswatch.co.uk/vle/ is an excellent resource to help with classwork, homework and revision. All students are given individual logins and passwords.• A revision guide at the appropriate tier of entry is available from the school library.• A weekly maths homework club (for all students) is held on Wednesdays from 3.10pm – 4.00pm in room A27. Maths teachers are available to help students on most days after school.• The exam board used for mathematics is Edexcel, specification details can be found here - http://qualifications.pearson.com/en/qualifications/edexcel-gcses/mathematics-2015.html <p>Recommended websites</p> <p>BBC Bitesize - https://www.bbc.co.uk/education/examspecs/z9p3mnb</p> <p>Corbettmaths – https://corbettmaths.com/</p> <p>Dr Frost - http://www.drfrostmaths.com/homework/</p> <p>Maths Genie - http://www.mathsgenie.co.uk/gcse.html</p> <p>Mr Barton - http://mrbartonmaths.com/students/gcse/</p> <p>Nrich - https://nrich.maths.org/secondary-lower</p> <p style="text-align: center;"><u>MATHS EQUIPMENT</u></p> <p>All students must attend lessons with pens (blue or black and green), pencil, long ruler, rubber, protractor, pair of compasses, scientific calculator and exercise book.</p>