

## MATHEMATICS FACULTY YEAR 7, 8 & 9

<i>Topic(s) covered</i>	<i>Resources available e.g. Website</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"> <li>• Number - Fractions, percentages, ratio and proportion, indices and surds, standard form, decimals.</li> <li>• Algebra - Equations and identities, formulae, sequences, graphs, quadratics, inequalities.</li> <li>• Ratio, proportion and rates of change – Scale factors, compound units, direct and inverse proportion, using gradient to interpret rates of change,</li> <li>• Geometry and measures - Area and volume, transformations, circles, trigonometry, Pythagoras, vectors, constructions.</li> <li>• Probability – The probability of events, averages</li> <li>• Statistics – Collecting and displaying data</li> </ul> <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"> <li>• one non-calculator paper</li> <li>• two calculator papers</li> </ul>	<ul style="list-style-type: none"> <li>• Mathswatch - <a href="https://vle.mathswatch.co.uk/vle/">https://vle.mathswatch.co.uk/vle/</a> is an excellent resource to help with classwork, homework and revision. All students are given individual logins and passwords.</li> <li>• A revision guide at the appropriate tier of entry is available from the school library.</li> <li>• 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.</li> <li>• The exam board used for mathematics is Edexcel, specification details can be found here – <a href="http://qualifications.pearson.com/en/qualifications/edexcel-gcse/mathematics-2015.html">http://qualifications.pearson.com/en/qualifications/edexcel-gcse/mathematics-2015.html</a></li> </ul> <p>Recommended websites -</p> <p>BBC Bitesize - <a href="https://www.bbc.co.uk/education/examspecs/z9p3mnb">https://www.bbc.co.uk/education/examspecs/z9p3mnb</a></p> <p>Corbettmaths – <a href="https://corbettmaths.com/">https://corbettmaths.com/</a></p> <p>Dr Frost - <a href="http://www.drfrostmaths.com/homework/">http://www.drfrostmaths.com/homework/</a></p> <p>Maths Genie - <a href="http://www.mathsgenie.co.uk/gcse.html">http://www.mathsgenie.co.uk/gcse.html</a></p> <p>Mr Barton - <a href="http://mrbartonmaths.com/students/gcse/">http://mrbartonmaths.com/students/gcse/</a></p> <p>Nrich - <a href="https://nrich.maths.org/secondary-lower">https://nrich.maths.org/secondary-lower</a></p> <p style="text-align: center;"><b><u>MATHS EQUIPMENT</u></b></p> <p>All students must attend lessons with pens (black and green), pencil, long ruler, rubber, protractor, pair of compasses, <b>scientific calculator</b> and exercise book.</p>