

Website - Curriculum

Name of Department:	Mathematics
Currently on Website:	<p>At Wyvern College, Year 7 students are expected to perform all calculations using mental arithmetic, and calculators should not be used unless under formal instruction with a teacher.</p> <p>All students should be equipped with pens, pencils, rulers, protractors and a pair of compasses. Students are set by ability in Key Stage 3, and they learn basic geometry, algebra, arithmetic and statistics.</p> <p>From September 2015 our Year 9 Classes have embarked on the KS4 GCSE syllabus in light of the current changes to the GCSE Course and Life after Levels.</p> <p>The New GCSE 9-1 Specification covers:</p> <ol style="list-style-type: none">1 Number2 Algebra3 Ratio, proportion and rates of change4 Geometry and measures5 Statistics and Probability <p>According to the Edexcel website, it is worth noting the following information, to which we align our teaching:</p> <ul style="list-style-type: none">• Two tiers are available: Foundation and Higher (content is defined for each tier).• Each student is permitted to take assessments in either the Foundation tier or Higher tier.• The qualification consists of three equally-weighted written examination papers at either Foundation tier or Higher tier.• All three papers must be at the same tier of entry and must be completed in the same assessment series.• Paper 1 is a non-calculator assessment and a calculator is allowed for Paper 2 and Paper 3.• Each paper is 1 hour and 30 minutes long.• Each paper has 80 marks.• The content outlined for each tier will be assessed across all three papers. <p>Year 11 students sit past papers under exam conditions every 4 weeks to help prepare them for their GCSE exam. Year 11 students that want extra help can</p>

	<p>come to any of the weekly after school sessions that the maths teachers provide. Able students have the opportunity to take part in the junior and intermediate maths challenges.</p> <p>Important points to note:</p> <p>We are following a Mathematics Mastery approach to our teaching and learning (a copy of the Thresholds we use can be viewed through our Schemes of Work link).</p> <p>Additional Online resources that we use include:</p> <p>www.mymaths.co.uk (access issued in school)</p> <p>PiXL Maths App (http://mathsapp.pixl.org.uk/PMA.swf)</p> <p>MathsWatch Resources</p> <p>We also have Autograph v3.3, Geogebra 5 and Omnigraph on our school networks to assist with our teaching of Geometry and Statistics.</p> <p>There is also a class set of Graphic Display Calculators for in class use.</p>
<p>Key Stage 3</p>	<p>In Year 7 and Year 8 we follow a 2 year Scheme of Work leading into Year 9 when pupils will embark on the now 3 year GCSE Course we are following.</p> <p>Two weeks after arrival, the Year 7 classes will do assessment tests which together with their previous assessments at KS2, will determine how they will be set.</p> <p>It is important the pupils come to school properly equipped for the lessons (Pen, pencil, ruler, rubber, pair of compasses, protractor, Scientific Calculator).</p> <p>We also do have plans for an after school club activity according to a published timetable.</p> <p>More able pupils will be availed opportunities to study Additional Mathematics.</p>
<p>Key Stage 4</p>	<p>Our GCSE Course will have started in Year 9 and we do teach Statistics in the main course although, additionally, opportunities for Year 10 and Year 11 to sit for</p>

	<p>a full GCSE Statistics Qualification (involves the completion of a Coursework Piece) are made possible according to ability.</p>
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