



**Subject:** Mathematics

**Lead Teacher:** Mr Heighway

**Year:** 8

**Curriculum organisation**  
 Students are taught in form groups of 28 students for three lessons per week.

<b>What topics will your daughter be studying this year?</b>			<b>How will your daughter be learning?</b>
<p><b>Autumn Term</b></p> <ul style="list-style-type: none"> <li>Algebra – simplifying expressions, factorising quadratics, solving linear equations, straight line graphs</li> <li>Number – index laws, fractions, directed number</li> <li>Shape – Pythagoras’ Theorem, trigonometry, circle mensuration</li> <li>Probability</li> </ul>	<p><b>Spring Term</b></p> <ul style="list-style-type: none"> <li>Algebra – rearranging and applying formulae, simultaneous equations, sequences</li> <li>Number – ratio, rounding decimal places and significant figures, percentages</li> <li>Shape – similar shapes, shape transformations, construction and loci, angles, polygons and bearings</li> <li>Data – averages from raw and grouped data, cumulative frequency diagrams, box plots</li> </ul>	<p><b>Summer Term</b></p> <ul style="list-style-type: none"> <li>Algebra – solving inequalities, reasoning and proof, solving quadratic equations, algebraic fractions</li> <li>Number - surds</li> <li>Shape – circle theorems, volume and surface area, 3D representations</li> </ul>	<ul style="list-style-type: none"> <li>Whole class discussion</li> <li>Paired work</li> <li>Worksheets</li> <li>Problem-solving tasks</li> </ul>

<b>Equipment needed for lessons</b>	<b>What can you do to support your daughter?</b>
<ul style="list-style-type: none"> <li>Standard school stationery</li> <li>Calculator</li> <li>Pair of compasses</li> </ul>	<ul style="list-style-type: none"> <li><b>Mymaths.co.uk</b> has lessons and practice questions to work through which can be done independently at home</li> </ul>

<b>How will learning be assessed and progress measured?</b>	<b>Extension &amp; Enrichment opportunities</b>
<ul style="list-style-type: none"> <li>Students will peer-mark some exercises</li> <li>Half termly tests</li> <li>Homework tasks will be marked using the NGHS Marking Policy</li> </ul>	<ul style="list-style-type: none"> <li><b>Junior maths challenge</b></li> <li><b>Team maths challenge</b></li> </ul>

If you have any questions about this Learning Overview, please contact the named Teacher above.