

# Maths Phase One Curriculum



## Overview:

Year 7, 8 and 9 students will follow the White Rose scheme of learning which will provide access to all the objectives from the National Curriculum. The scheme is made of units that are designed to be taught for a period of between 1 and 3 weeks to allow students to spend enough time to get a deep understanding of the topic being covered. All groups will cover the units at the same time. The scheme has been designed to allow for the interleaving of skills, progress is made through the units so that the students' understanding, and knowledge is reinforced and extended. Students are given opportunities throughout the scheme to develop their written and mental arithmetic, however the scheme also allows for calculator skills to be developed. There is a mini assessment for each unit to check for understanding of the key skills throughout the year. There are also three assessments to be taken three within the year. The assessments cover all topics that the students have been taught through the course.

## Content:

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 7	<b>Algebraic Thinking</b> <ul style="list-style-type: none"> <li>Sequences</li> <li>Algebraic notation</li> <li>Equality &amp; equivalence</li> </ul>	<b>Place Value &amp; Proportion</b> <ul style="list-style-type: none"> <li>Ordering integers &amp; decimals</li> <li>FDP equivalence</li> </ul>	<b>Application of Number</b> <ul style="list-style-type: none"> <li>Problems with addition &amp; subtraction</li> <li>Problems with multiplication &amp; division</li> <li>Fractions &amp; percentages of an amount</li> </ul>	<b>Directed Number</b> <ul style="list-style-type: none"> <li>Operations &amp; equations with directed number</li> </ul> <b>Fractional thinking</b> <ul style="list-style-type: none"> <li>Addition and subtraction of fractions</li> </ul>	<b>Lines and Angles</b> <ul style="list-style-type: none"> <li>Constructing, measuring &amp; using geometric notation</li> <li>Develop geometric notation</li> </ul>	<b>Reasoning with Number</b> <ul style="list-style-type: none"> <li>Developing number sense</li> <li>Sets &amp; Probability</li> <li>Prime numbers &amp; Proof</li> </ul>
Year 8	<b>Proportional Reasoning</b> <ul style="list-style-type: none"> <li>Ratio &amp; Scale</li> <li>Multiplicative change</li> <li>Multiplying &amp; dividing fractions</li> </ul>	<b>Representations</b> <ul style="list-style-type: none"> <li>Working in the cartesian plane</li> <li>Collecting and representing data</li> <li>Tables</li> </ul>	<b>Algebraic technique</b> <ul style="list-style-type: none"> <li>Brackets, equations &amp; inequalities</li> <li>Sequences</li> <li>Indices</li> </ul>	<b>Developing number</b> <ul style="list-style-type: none"> <li>Fractions &amp; Percentages</li> <li>Standard index form</li> <li>Number sense</li> </ul>	<b>Developing Geometry</b> <ul style="list-style-type: none"> <li>Angles in parallel lines &amp; polygons</li> <li>Area of trapezia &amp; circles</li> <li>Lines of symmetry &amp; reflection</li> </ul>	<b>Reasoning with Data</b> <ul style="list-style-type: none"> <li>The data handling cycle</li> <li>Measure &amp; location</li> </ul>

<b>Year 9</b>	<b>Reasoning algebra</b> <ul style="list-style-type: none"> <li>• Forming &amp; solving equations</li> <li>• Straight line graph</li> <li>• Testing conjecture</li> </ul>	<b>Constructing</b> <ul style="list-style-type: none"> <li>• 3D shapes</li> <li>• Construction &amp; congruency</li> </ul>	<b>Reasoning number</b> <ul style="list-style-type: none"> <li>• Number</li> <li>• Using percentages</li> <li>• Maths &amp; money</li> </ul>	<b>Reasoning geometry</b> <ul style="list-style-type: none"> <li>• Deduction</li> <li>• Rotation &amp; translation</li> <li>• Pythagoras theorem</li> </ul>	<b>Reasoning proportion</b> <ul style="list-style-type: none"> <li>• Enlargement &amp; similarity</li> <li>• Solving ratio &amp; proportion problems</li> <li>• Rates</li> </ul>	<b>Representation &amp; revision</b> <ul style="list-style-type: none"> <li>• Probability</li> <li>• Algebraic representation</li> <li>• Revision</li> </ul>
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**Who to contact about Phase One Maths:**

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