

Curriculum Overview for Mathematics - Year 8

When?	What?	Why?	How?	Support
Autumn Half Term - 1	<p>Develop mental and written methods of calculations.</p> <p>Recognise and use angle properties, as well as properties of 2D and 3D Shapes.</p>	<p>To ensure students have a method to calculate, which will support their mathematical development.</p> <p>To engage students with objects around them and understand their properties.</p>	<p>The process will continue to develop visual understandings to more efficient methods.</p> <p>Teaching and learning may be through a variety of methods, some of which include open ended problems, card activities, group tasks and ICT.</p>	<p>www.mymaths.co.uk www.mathswatchvle.com</p> <p>Log in details are in all Mathematics classrooms.</p> <p>Practice of times tables would be helpful.</p>
Autumn Half Term - 2	<p>Rules of algebra, formulae and expressions.</p> <p>Measures and Mensuration.</p>	<p>To ensure students understand the concept of representation through algebra.</p> <p>Students need to understand what a unit of measure is.</p>	<p>Concepts will continue to be taught by illustration if necessary. Students will be encouraged to spot patterns and develop their skills in algebra.</p> <p>Through the use of scales in the classroom.</p>	<p>www.mymaths.co.uk www.mathswatchvle.com</p> <p>Log in details are in all Mathematics classrooms.</p>
Spring Half Term - 1	<p>Fractions, Decimals, Percentages, Ratio and Proportion.</p> <p>Probability.</p>	<p>To engage students with the idea of proportion, understanding how an amount could be shared.</p> <p>To allow students to understand the possibility of events occurring.</p>	<p>Concepts will be developed through visual representation, leading into real life scenarios.</p> <p>Discussions of various scenarios.</p>	<p>www.mymaths.co.uk www.mathswatchvle.com</p> <p>Log in details are in all Mathematics classrooms.</p>
Spring Half Term - 2	<p>Collecting and Representing Data.</p>	<p>To allow students to understand the data handling cycle and its importance, especially interpreting results from a data collection.</p>	<p>Teaching will be through a variety of methods, possibly a mini statistical project.</p>	<p>www.mymaths.co.uk www.mathswatchvle.com</p> <p>Log in details are in all Mathematics classrooms.</p>

<p>Summer Half Term - 1</p>	<p>Types of numbers, including powers and roots. Rounding numbers.</p> <p>Plotting coordinates and drawing graphs.</p>	<p>To ensure students understand, place value and the importance of writing number s in a variety of ways in preparation for Key Stage 4.</p> <p>To prepare students for graph work and interpreting graphs.</p>	<p>Through a variety of teaching methods and activities, some to include card task, investigations, group work and use of ICT.</p> <p>Plotting pictures/shapes/lines and functions.</p>	<p>www.mymaths.co.uk www.mathswatchvle.com</p> <p>Log in details are in all Mathematics classrooms.</p> <p>Practice square numbers and square roots.</p>
<p>Summer Half Term 2</p>	<p>Sequences.</p> <p>Transformations.</p>	<p>To encourage students to visualise and recognise patterns.</p> <p>To ensure students understand the concepts of the transformations to support their Key Stage shape topics.</p>	<p>Ideas will be represented firstly using objects/visualising. This will develop into concepts of nth term</p> <p>Students will be using mirrors and tracing paper to complete/recognise the transformations.</p>	<p>www.mymaths.co.uk www.mathswatchvle.com</p> <p>Log in details are in all Mathematics classrooms.</p>