

Maths Year 7 – Curriculum Intent All students to improve mathematical knowledge by developing their understanding of mathematical concepts, key words, command verbs, mathematical notation, interpreting mathematical information and use effective methods to solve mathematical problems.

	<u>Unit Intent</u>	<u>Content Coverage</u>	<u>Method/s of Assessment</u>
<u>Term 1: Number and Probability</u>	<p>Recap and build on prior Key Stage 2 knowledge of basic number skills to consolidate and prepare for future units, learn new skills needed to enable students to have a good understanding of mathematical methods to move forward into problem solving.</p> <p>Recap and build upon prior Key Stage 2 knowledge of probability skills to consolidate and to prepare students to apply these skills.</p>	<ul style="list-style-type: none"> <li>• Number: Four Operations and Place value.</li> </ul> <p>Feeds forward to</p> <ul style="list-style-type: none"> <li>• Number: Fractions, decimals and percentages</li> </ul> <p>And Year 8 Autumn 1</p> <p>Feeds forward to –</p> <ul style="list-style-type: none"> <li>• Handling Data and Probability</li> </ul> <p>And Year 8 Autumn 1</p>	<ul style="list-style-type: none"> <li>• <u>Feed forward mini assessment</u></li> <li>• <u>Hegarty Maths Homework or Times Table Rockstars</u></li> <li>• <u>Formula, times tables and key word assessment</u></li> <li>• <u>End of term summative assessment</u></li> </ul>
<u>Term 2: Algebra, Transformations and Substitution</u>	<p>To introduce the concept of representing unknown values with letters and solidify rules of basic algebra in order to give students a good strong foundation.</p> <p>To build upon/recap prior knowledge of symmetry and develop skills in transforming shapes. Introduce congruence and similarity.</p> <p>To build on skills learnt from Algebra 1 and introduce</p>	<ul style="list-style-type: none"> <li>• Algebra, simplifying involving the four operations.</li> </ul> <p>Feeds forward to Term 2 Substitution, Term 3 and Year 8 Autumn 1.</p> <ul style="list-style-type: none"> <li>• Transformations. Feeds forward to Term 4 and Year 8 Term 2</li> </ul>	<ul style="list-style-type: none"> <li>• <u>Feed forward mini assessment</u></li> <li>• <u>Hegarty Maths Homework or Times Table Rockstars</u></li> <li>• <u>Formula, times tables and key word assessment</u></li> <li>• <u>End of term summative assessment</u></li> </ul>

	substitution and formulae to also aid students in Science and Geography.		
<u>Term 3: Shape, space and measure and Algebra, solving equations.</u>	<p>To recap and build on prior knowledge of 2D shapes, area and perimeter and build upon this knowledge to solve problems. Learn the formulae needed for geometry to enable calculation and problem solving.</p> <p>Recap the meaning of the equals sign and introduce equations and reinforce the balancing method to solve equations in order to solve 1 step and multistep.</p>	<ul style="list-style-type: none"> <li>• Shape, space and measure:- area and perimeter of 2D shapes including circles.</li> <li>• Feeds forward to Year 8 Spring 1 and Term 4 Year 7.</li> <li>• Algebra:-solving equations. Feeds forward to Spring 1 Year 8.</li> </ul>	<ul style="list-style-type: none"> <li>• <u>Feed forward mini assessment</u></li> <li>• <u>Hegarty Maths Homework or Times Table Rockstars</u></li> <li>• <u>Formula, times tables and key word assessment</u></li> <li>• <u>End of term summative assessment from topics covered in terms 1, 2 and 3</u></li> </ul>
<u>Term 4: Shape, space and measure and Number.</u>	<p>To recap and build on prior knowledge of number properties so that students have a strong understanding. Students to be introduced to new skills such as prime factor <b>decomposition</b> and use these skills to calculate the HCF and LCM of numbers. Discrete lessons on how to use a calculator effectively.</p> <p>Students will recap and build on prior knowledge of angles, and use this knowledge to aid them in drawing triangles. They will develop</p>	<ul style="list-style-type: none"> <li>• Number and number properties. Using a calculator. Feeds forward to Term 1 Year 8.</li> <li>• Angle practice, bearings and construction. Feeds into Term 4 Year 7 and Term 4 Year 8.</li> </ul>	<ul style="list-style-type: none"> <li>• <u>Feed forward mini assessment</u></li> <li>• <u>Hegarty Maths Homework or Times Table Rockstars</u></li> <li>• <u>Formula, times tables and key word assessment</u></li> <li>• <u>End of term summative assessment in topics covered in terms 1,2,3 and 4.</u></li> </ul>

	<p>their skills in map reading ( cross curricular link to Geography) and represent mathematical drawings.</p> <p>Build on prior knowledge of 2D and 3D. Find angle sizes in 2D shapes. Introduce angle properties of parallel lines and use algebraic representation for unknown values and use in geometric contexts (Term 1).</p>	<ul style="list-style-type: none"> <li>• Properties of shapes. Feeds into Term 4 Year 8.</li> </ul>	
<p><u>Term 5: Number, ratio and proportionality, Shape, space and measure</u></p>	<p>To apply mathematical knowledge to scale drawings and maps. Introduce the idea of ratio to represent proportional reasoning. Apply ratio in real life contexts.</p> <p>To recap and use standard units of measure including time and reading simple scales. Build upon using standard units with decimal quantities and conversion between standard units. Introduce standard compound measures and represent measures graphically over time and relate to real life.</p>	<ul style="list-style-type: none"> <li>• Number: Ratio, proportionality and unitary method. Feeds into Term 5 Year 8.</li> <li>• Shape, Space and Measures:- Measures. Feeds into Term 5 Year 8</li> </ul>	<ul style="list-style-type: none"> <li>• <u>Feed forward mini assessment</u></li> <li>• <u>Hegarty Maths Homework or Times Table Rockstars</u></li> <li>• <u>Formula, times tables and key word assessment</u></li> <li>• <u>End of term summative assessment, all topics in terms 1-5</u></li> </ul>

<p><u>Term 6: Handling data and Algebra</u></p>	<p>To build upon previous Key Stage 2 knowledge of data handling. Collect and represent a range of data to analyse and review. Students to learn how to present data appropriately and be able to interpret and discuss findings.</p> <p>To revisit coordinates and build to coordinate in all 4 quadrants (link to Term 2). Introduce linear sequences and use of term to term rule and the nth term.</p> <p>Introduce <b>linear</b> graphs.</p>	<ul style="list-style-type: none"> <li>• <u>Handling Data: Displaying data.</u> Feeds into Term 6 Year 8</li>   <li>• Algebra: co-ordinates and sequences. Feeds into Term 6 Year 8.</li> </ul>	<ul style="list-style-type: none"> <li>• <u>Feed forward mini assessment</u></li> <li>• <u>Hegarty Maths Homework or Times Table Rockstars</u></li> <li>• <u>Formula, times tables and key word assessment</u></li> <li>• <u>End of year summative assessment</u></li> </ul>
---	---	---	--