

## Year 11 Mathematics Learning Programme 3

<p>The LORIC skill focus for this LP is: RESILIENCE</p> <p>Respect - treat others how you would wish to be treated yourself. Justice - our College rules are fair and reasonable.</p> <p><b>What will I be learning about in this Learning Programme?</b> In LP3 I will be learning about histograms, inequalities, circle theorems, functions, sequences, simultaneous equations and graphs.</p> <p><b>Where have I seen this learning before?</b> Year 10: straight line graphs, basic circle theorems, data handling, nth term and simple simultaneous equations.</p> <p><b>What could I use it for?</b> The knowledge and skills I will learn in this learning programme will allow me to solve algebraic problems involving sequences, functions and graphs. These skills are useful in more complex algebra and calculus used in careers such as engineering.</p>		<p><b>Literacy:</b></p> <ul style="list-style-type: none"> <li>Capital letters must be used at the start of sentences and for the first letter of proper nouns</li> <li>Full stops must be used at the end of a sentence</li> <li>Question marks must be used at the end of a question</li> <li>Apostrophes should only be used for possession or omission</li> <li>Days of the week and months must be spelled correctly</li> <li>Key words must be spelled correctly</li> </ul>
<p><b>In LP3.1, I will know:</b></p> <p>how to draw histograms; how to interpret histograms.</p>	<p>06/01/25 - (WK 2)</p> <p>Frequency density</p>	<p><b>Key Vocabulary</b></p> <p><b>Homework</b></p> <p>LP2:7 Consolidation Sparx Maths</p>
<p><b>In LP3.2, I will know:</b></p> <p>how to represent inequalities on a graph; how to solve problems involving quadratic inequalities.</p>	<p>13/01/25 - (WK 1)</p> <p>Region</p>	<p><b>Key Vocabulary</b></p> <p><b>Homework</b></p> <p>LP3:1 Topics plus consolidation Sparx Maths</p>
<p><b>In LP3.3, I will know:</b></p> <p>how to identify circle theorems; how to solve problems involving circle theorems.</p>	<p>20/01/25 - (WK 2)</p> <p>Tangent</p>	<p><b>Key Vocabulary</b></p> <p><b>Homework</b></p> <p>LP3:2 Topics plus consolidation Sparx Maths</p>
<p><b>In LP3.4, I will know:</b></p> <p>how to use function notation; how to interpret composite functions; how to find inverse functions.</p> <p>Extended Task.</p>	<p>27/01/25 - (WK 1)</p> <p>Function</p>	<p><b>Key Vocabulary</b></p> <p><b>Homework</b></p> <p>LP3:3 Topics plus consolidation Sparx Maths</p>
<p><b>In LP3.5, I will know:</b></p> <p>how to complete the square; how to find the nth term of a quadratic sequence.</p>	<p>03/02/25 - (WK 2)</p> <p>Common Ratio</p>	<p><b>Key Vocabulary</b></p> <p><b>Homework</b></p> <p>LP3:4 Topics plus consolidation Sparx Maths</p>
<p><b>In LP3.6, I will know:</b></p> <p>how to solve problems with simultaneous equations; how to solve quadratic simultaneous equations.</p>	<p>10/02/25 - (WK 1)</p> <p>Variable</p>	<p><b>Key Vocabulary</b></p> <p><b>Homework</b></p> <p>LP3:5 Topics plus consolidation Sparx Maths</p>
<p><b>LP2 RLW, I will:</b></p> <p>review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.</p>	<p>24/02/25 - (WK 2)</p>	<p><b>Key Vocabulary</b></p> <p><b>Homework</b></p> <p>Sparx Revision Task for Assessment 2</p>
<p><b>In LP3.7, I will know:</b></p> <p>how to find the equations of perpendicular lines; how to find the equations of tangents.</p> <p>Extended Task.</p>	<p>03/03/25 - (WK 1)</p> <p>Gradient</p>	<p><b>Key Vocabulary</b></p> <p><b>Homework</b></p> <p>LP3:6 Topics plus consolidation Sparx Maths</p>
<p><b>Resources to support learning:</b> Pupils have access to knowledge organisers and Sparx Maths to further support them in their Mathematics revision beyond the classroom. All weekly homework tasks will be set on Sparx Maths and all questions have a video to support. Pupils can access any topic in the Independent Practice section on Sparx Maths. Sparx Maths has been introduced to the pupils by their teachers and their login details should be written in their planner.</p>		
<p><b>FFET Award Challenge for this Learning Programme:</b> Complete a Maths exam paper from Maths Genie independently.</p>		

PRT Task 1

PRT Task 2