

## Year 7 Mathematics

### Learning Programme 3

<p>The LORIC skill focus for his LP is: RESILIENCE The Moral Virtues focus for this LP are: RESPECT and JUSTICE</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 lines, 2D-shapes, symmetry, area, perimeter, multiples, factors and primes.</p> <p><b>Where have I seen this learning before?</b> KS2: co-ordinates, symmetry, area by counting squares, multiples and factors.</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 geometrical problems. I will later be able to apply this knowledge to problems involving volume and surface area.</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> how to identify parallel and perpendicular lines; how to identify polygons up to decagons; how to recognise types of triangles and quadrilaterals.</p>	<p>06/01/25 - (WK 2)</p> <p>Perpendicular</p>	<p>Key Vocabulary</p> <p>Homework</p> <p>LP2:7 Consolidation Sparx Maths</p>
<p><b>In LP3.2, I will know:</b> how to recognise line symmetry; how to identify the order of rotational symmetry of a shape; how to work with coordinates in all four quadrants.</p>	<p>13/01/25 - (WK 1)</p> <p>Line of Symmetry</p>	<p>Key Vocabulary</p> <p>Homework</p> <p>LP3:1 Topics plus consolidation Sparx Maths</p>
<p><b>In LP3.3, I will know:</b> how to solve problems with perimeter; how to solve problems using the area of rectangles and triangles.</p>	<p>20/01/25 - (WK 2)</p> <p>Perimeter</p>	<p>Key Vocabulary</p> <p>Homework</p> <p>LP3:2 Topics plus consolidation Sparx Maths</p>
<p><b>In LP3.4, I will know:</b> how to find the perimeter of compound shapes; how to find the area of compound shapes.</p> <p>Extended Task.</p>	<p>27/01/25 - (WK 1)</p> <p>Area</p>	<p>Key Vocabulary</p> <p>Homework</p> <p>LP3:3 Topics plus consolidation Sparx Maths</p>
<p><b>In LP3.5, I will know:</b> how to calculate the LCM and HCF by listing; how to identify prime numbers.</p>	<p>03/02/25 - (WK 2)</p> <p>Prime</p>	<p>Key Vocabulary</p> <p>Homework</p> <p>LP3:4 Topics plus consolidation Sparx Maths</p>
<p><b>In LP3.6, I will know:</b> how to write any number as a product of its prime factors; how to use prime decomposition to find the HCF and LCM.</p>	<p>10/02/25 - (WK 1)</p> <p>Divisible</p>	<p>Key Vocabulary</p> <p>Homework</p> <p>LP3:5 Topics plus consolidation Sparx Maths</p>
<p><b>LP2 RLW, I will:</b> 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>Key Vocabulary</p> <p>Homework</p> <p>Sparx Revision Task for Assessment 2</p>
<p><b>In LP3.7, I will know:</b> how to expand single brackets; how to expand single brackets and simplify the resulting expression; how to factorise into single brackets.</p> <p>Extended Task.</p>	<p>03/03/25 - (WK 1)</p> <p>Factorise</p>	<p>Key Vocabulary</p> <p>Homework</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> Earn 2000 XP points in Sparx Maths from XP Boost tasks, XP Target tasks or Independent Learning tasks.</p>		

PRT Task 1

PRT Task 2