

Year 9 Sets 1-4 Mathematics

Learning Programme 4

<p>The LORIC skill focus for this LP is: INITIATIVE. The Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE.</p> <p>Integrity - Having strong moral principles. I will show integrity by taking responsibility for my actions. Gratitude - Feeling and expressing thanks. I will show gratitude by saying please and thank you.</p> <p>What will I be learning about in this Learning Programme? In LP4 I will be learning about non-linear graphs, angles, transformations, similar and congruent shapes.</p> <p>Where have I seen this learning before? Year 8: simple reflections, translations in words, enlargements without a centre.</p> <p>What could I use it for? The knowledge and skills I will learn in this learning programme will allow me to solve geometrical problems. Later I will apply this to more complex problems involving similar shapes.</p>		<p>Literacy Non-Negotiables:</p> <ul style="list-style-type: none"> • Capital letters must be used at the start of sentences and for the first letter of proper nouns • Full stops must be used at the end of a sentence • Question marks must be used at the end of a question • Apostrophes should only be used for possession or omission • Days of the week and months must be spelled correctly • Key words must be spelled correctly • Vocabulary to be taught using the Frayer model
<p>In LP4.1, I will know: 09/03/26 - (WK 2)</p> <p>how to draw and interpret distance-time graphs; how to calculate the speed from a distance-time graph; how to draw a distance-time graph from given speeds.</p>	<p>Frayer Model Words</p> <p>Velocity</p>	<p>Homework</p> <p>LP3:7 Consolidation Sparx Maths</p>
<p>In LP4.2, I will know: 16/03/26 - (WK 1)</p> <p>how to plot a quadratic graphs; how to interpret quadratic graphs; how to solve quadratic equations using graphs.</p>	<p>Frayer Model Words</p> <p>Root</p>	<p>Homework</p> <p>LP4:1 Topics plus consolidation Sparx Maths</p>
<p>In LP4.3, I will know: 23/03/26 - (WK 2)</p> <p>how to solve angles on parallel lines problems and give reasons; how to solve angles in polygons problems; how to form conjectures with angles.</p> <p>Extended Task.</p>	<p>Frayer Model Words</p> <p>Co-interior</p>	<p>Homework</p> <p>LP4:2 Topics plus consolidation Sparx Maths</p>
<p>In LP4.4, I will know: 13/04/26 - (WK 1)</p> <p>how to measure and draw bearings; how to calculate bearings.</p>	<p>Frayer Model Words</p> <p>Bearing</p>	<p>Homework</p> <p>LP4:3 Topics plus consolidation Sparx Maths</p>
<p>In LP4.5, I will know: 20/04/26 - (WK 2)</p> <p>how to draw and describe reflections in diagonal lines; how to draw and describe a rotation; how to translate points and shapes by a given vector.</p>	<p>Frayer Model Words</p> <p>Vector</p>	<p>Homework</p> <p>LP4:4 Topics plus consolidation Sparx Maths</p>
<p>In LP4.6, I will know: 27/04/26 - (WK 1)</p> <p>how to compare rotation and reflection of shapes; how to draw and describe enlargements a shape by a positive integer scale factor from a point; how to work out missing sides and angles in a pair of given similar shapes.</p> <p>Extended Task.</p>	<p>Frayer Model Words</p> <p>Similar</p>	<p>Homework</p> <p>LP4:5 Topics plus consolidation Sparx Maths</p>
<p>In LP4.7, I will know: 04/05/26 - (WK 2)</p> <p>how to identify congruent figures; how to identify congruent triangles; how to construct triangles.</p>	<p>Frayer Model Words</p> <p>Congruent</p>	<p>Homework</p> <p>LP4:6 Topics plus consolidation Sparx Maths</p>
<p>Resources to support learning:</p> <p>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>FFET Award Challenge for this Learning Programme:</p> <p>Complete a distance-time graph to document your journey to and from school. Include all details of your journey such as stopping to wait for your friend or walking at a faster pace when you are running late.</p>		

