

Year 10 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 data handling, indices, sequences and transformations.</p> <p>Where have I seen this learning before? KS3: basic transformations, averages from a data set, simple statistical diagrams such as bar charts.</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 involving similarity.</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: how to calculate and use averages from a given data set; how to represent data using statistical diagrams; how to interpret statistical diagrams.</p>	<p>09/03/26 - (WK 2)</p> <p>Frayer Model Words</p> <p>Average</p>	<p>Homework</p> <p>LP3:7 Consolidation Sparx Maths</p>
<p>In LP4.2, I will know: how to identify populations and samples; how to use sampling to solve problems.</p>	<p>16/03/26 - (WK 1)</p> <p>Frayer Model Words</p> <p>Stratified Sampling</p>	<p>Homework</p> <p>LP4:1 Topics plus consolidation Sparx Maths</p>
<p>In LP4.3, I will know: how to solve problems with powers and roots; how to use the laws of indices with positive and negative powers.</p> <p>Extended Task.</p>	<p>23/03/26 - (WK 2)</p> <p>Frayer Model Words</p> <p>Index</p>	<p>Homework</p> <p>LP4:2 Topics plus consolidation Sparx Maths</p>
<p>In LP4.4, I will know: how to change between ordinary numbers and standard form; how to calculate with standard form.</p>	<p>13/04/26 - (WK 1)</p> <p>Frayer Model Words</p> <p>Standard Form</p>	<p>Homework</p> <p>LP4:3 Topics plus consolidation Sparx Maths</p>
<p>In LP4.5, I will know: how to interpret non-linear sequences; how to find the nth term of sequences.</p>	<p>20/04/26 - (WK 2)</p> <p>Frayer Model Words</p> <p>Geometric</p>	<p>Homework</p> <p>LP4:4 Topics plus consolidation Sparx Maths</p>
<p>In LP4.6, I will know: how to draw transformations of 2D shapes; how to describe transformations of 2D shapes.</p> <p>Extended Task.</p>	<p>27/04/26 - (WK 1)</p> <p>Frayer Model Words</p> <p>Scale Factor</p>	<p>Homework</p> <p>LP4:5 Topics plus consolidation Sparx Maths</p>
<p>In LP4.7, I will know: how to recognise and use similar shapes; how to solve problems involving similar shapes.</p>	<p>04/05/26 - (WK 2)</p> <p>Frayer Model Words</p> <p>Similar</p>	<p>Homework</p> <p>LP4:6 Topics plus consolidation Sparx Maths</p>
<p>Resources to support learning: 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: Draw a perfect Golden Spiral using the Fibonacci sequence.</p>		

PRT Task 1

PRT Task 2