

Year 9 Set 1 to 4 Mathematics

Learning Programme 5

<p>The LORIC skill focus for this LP is: COMMUNICATION.</p> <p>The Moral Virtues focus for this LP are: COURAGE and HUMILITY.</p> <p>Courage - Acting with bravery and overcoming fears.</p> <p>Humility - Having a modest view of oneself.</p> <p>What will I be learning about in this Learning Programme? In LP5 I will be learning about similar shapes, proportional reasoning, compound measures and probability.</p> <p>Where have I seen this learning before? Year 8: understand and use scale factors, conversion graphs, similar shapes, metric conversions, link gradient and ratio.</p> <p>What could I use it for? The knowledge and skills I will learn in this learning programme will allow me to solve problems involving proportion and be able to link this to enlargements and similar shapes. I will solve problems involving compound measures and make links to other subjects such as science. I will develop the language of probability and solve problems involving both theoretical and experimental probabilities.</p>		<p>Literacy:</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
<p>In LP5.1, I will know: 13/05/24 - (WK 1)</p> <p>how to recognise enlargement and similarity; how to enlarge a shape by a positive integer scale factor from a point.</p>	<p>Key Vocabulary</p> <p>Similar</p>	<p>Homework</p> <p>LP4 consolidation Sparx Maths</p>
<p>In LP5.2, I will know: 20/05/24 - (WK 2)</p> <p>how to enlarge a shape by a positive fractional scale factor; how to work out missing sides and angles in a pair of given similar shapes.</p>	<p>Key Vocabulary</p> <p>Scale Factor</p>	<p>Homework</p> <p>LP5:1 Topics plus consolidation Sparx Maths</p>
<p>In LP5.3, I will know: 03/06/24 - (WK 1)</p> <p>how to solve problems with direct proportion and conversion graphs ; how to solve problems with inverse proportion; how to solve 'best-buy' problems.</p> <p>Extended Task.</p>	<p>Key Vocabulary</p> <p>Proportional</p>	<p>Homework</p> <p>LP5:2 Topics plus consolidation Sparx Maths</p>
<p>In LP5.4, I will know: 10/06/24 - (WK 2)</p> <p>how to solve speed, distance and time problems with and without a calculator; how to use distance/time graphs.</p>	<p>Key Vocabulary</p> <p>Speed</p>	<p>Homework</p> <p>LP5:3 Topics plus consolidation Sparx Maths</p>
<p>In LP5.5, I will know: 17/06/24 - (WK 1)</p> <p>how to solve problems with density, mass and volume; how to solve flow problems and their graphs.</p>	<p>Key Vocabulary</p> <p>Density</p>	<p>Homework</p> <p>LP5:4 Topics plus consolidation Sparx Maths</p>
<p>In LP5.6, I will know: 24/06/24 - (WK 2)</p> <p>how to solve problems with rates of change and their units; how to convert compound units.</p> <p>Extended Task.</p>	<p>Key Vocabulary</p> <p>Pressure</p>	<p>Homework</p> <p>LP5:5 Topics plus consolidation Sparx Maths</p>
<p>In LP5.7, I will know: 01/07/24 - (WK 1)</p> <p>how to solve relative frequency problems including convergence; how to calculate expected outcomes.</p>	<p>Key Vocabulary</p> <p>Relative Frequency</p>	<p>Homework</p> <p>LP5:6 Topics plus consolidation Sparx Maths</p>
<p>In LP5.8, I will know: 08/07/24 - (WK 2)</p> <p>how to calculate probabilities of independent events; how to use diagrams to work out probabilities.</p>	<p>Key Vocabulary</p> <p>Independent</p>	<p>Homework</p> <p>LP5:7 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: Complete 4 XP Boost Tasks on Sparx Maths</p>		

PRT Task 1

PRT Task 2