

Year 11 Set 2 Mathematics

Learning Programme 2

<p>The LORIC skill focus for his LP is: ORGANISATION The Moral Virtues focus for this LP are: COMPASSION and HONESTY Compassion - the quality of feeling pity and concern for the sufferings or misfortunes of others. Honesty - the quality of being truthful.</p> <p>What will I be learning about in this Learning Programme? In LP2 I will be learning about algebraic fractions and trigonometry in right-angled and non right-angled triangles.</p> <p>Where have I seen this learning before? Year 10: Right-angled trigonometry</p> <p>What could I use it for? The knowledge and skills I will learn in this learning programme will allow me to solve algebraic and geometrical problems. These skills are used in engineering.</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 LP2.1, I will know: 21/10/24 - (WK 2)</p> <p>how to add and subtract with algebraic fractions; how to multiply and divide with algebraic fractions; how to solve equations with algebraic fractions.</p>	<p>Key Vocabulary</p> <p>Denominator</p>	<p>Homework</p> <p>LP1:7 Consolidation Sparx Maths</p>
<p>In LP2.2, I will know: 04/11/24 - (WK 1)</p> <p>how to solve problems involving finding sides of right-angled triangles; how to solve problems involving finding angles of right-angled triangles.</p>	<p>Key Vocabulary</p> <p>Adjacent</p>	<p>Homework</p> <p>LP2:1 Topics plus consolidation Sparx Maths</p>
<p>LP2 RLW, I will: 11/11/24 - (WK 2)</p> <p>review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.</p>	<p>Key Vocabulary</p> <p>Knowledge</p>	<p>Homework</p> <p>Consolidation Sparx Maths</p>
<p>In LP2.3, I will know: 18/11/24 - (WK 1)</p> <p>how to solve problems involving Pythagoras' Theorem and Trigonometry in 3D shapes; how to use the exact values to solve trigonometry problems.</p> <p>Extended Task.</p>	<p>Key Vocabulary</p> <p>Trigonometry</p>	<p>Homework</p> <p>LP2:2 Topics plus consolidation Sparx Maths</p>
<p>In LP2.4, I will know: 25/11/24 - (WK 2)</p> <p>how to apply the knowledge learnt to date to my mock examinations.</p>	<p>Key Vocabulary</p> <p>Revision</p>	<p>Homework</p> <p>LP2:3 Topics plus consolidation Sparx Maths</p>
<p>In LP2.5, I will know: 02/12/24 - (WK 1)</p> <p>how to apply the knowledge learnt to date to my mock examinations.</p>	<p>Key Vocabulary</p> <p>Revision</p>	<p>Homework</p> <p>LP2:4 Topics plus consolidation Sparx Maths</p>
<p>In LP2.6, I will know: 09/12/24 - (WK 2)</p> <p>how to find the area of any triangle without the perpendicular height; how to use the sine rule to find missing lengths; how to use the sine rule to find missing angles.</p> <p>Extended Task.</p>	<p>Key Vocabulary</p> <p>Perpendicular</p>	<p>Homework</p> <p>LP2:5 Topics plus consolidation Sparx Maths</p>
<p>In LP2.7, I will know: 16/12/24 - (WK 1)</p> <p>how to use the cosine rule to find missing lengths; how to use the cosine rule to find missing angles; how to solve problems involving the sine and cosine rules.</p>	<p>Key Vocabulary</p> <p>Hypotenuse</p>	<p>Homework</p> <p>LP2:6 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: Complete 4 XP Boost Tasks on Sparx Maths</p>		

