

## Year 12 GCSE Mathematics Learning Programme 2

<p>The LORIC skill focus for his LP is: ORGANISATION</p> <p>The Moral Virtues focus for this LP are: COMPASSION and HONESTY</p> <p>Compassion - the quality of feeling pity and concern for the sufferings or misfortunes of others.</p> <p>Honesty - the quality of being truthful.</p> <p><b>What will I be learning about in this Learning Programme?</b></p> <p>In LP2 I will be learning about enlargements and trigonometry in right-angled triangles.</p> <p><b>Where have I seen this learning before?</b></p> <p>Year 10: Pythagoras' Theorem.</p> <p><b>What could I use it for?</b></p> <p>The knowledge and skills I will learn in this learning programme will allow me to solve geometrical problems. These skills are used in engineering.</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>
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In LP2.1, I will know:	21/10/24 - (WK 2)	Key Vocabulary	Homework
<p>how to enlarge a shape by a positive scale factor on a coordinate axis;</p> <p>how to enlarge a shape by a fractional scale factor on a coordinate axis.</p>		Scale Factor	

In LP2.2, I will know:	04/11/24 - (WK 1)	Key Vocabulary	Homework
<p>how to enlarge a shape by a positive scale factor anywhere on a grid.</p>		Similar	

LP2 RLW, I will:	11/11/24 - (WK 2)		
<p>review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.</p>			

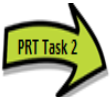
In LP2.3, I will know:	18/11/24 - (WK 1)	Key Vocabulary	Homework
<p>how to solve problems involving with Pythagoras' Theorem;</p> <p>how to work fluently with the hypotenuse, opposite and adjacent sides;</p> <p>how to calculate missing sides using trigonometric ratios.</p> <p>Extended Task.</p>		Hypotenuse	



In LP2.4, I will know:	25/11/24 - (WK 2)	Key Vocabulary	Homework
<p>how to form and solve linear equations requiring two or more steps;</p> <p>how to form and solve linear equations with unknowns on both sides.</p>		Variable	

In LP2.5, I will know:	02/12/24 - (WK 1)	Key Vocabulary	Homework
<p>how to form and solve linear inequalities requiring two or more steps;</p> <p>how to represent solutions of inequalities on a number line.</p>		Inequality	

In LP2.6, I will know:	09/12/24 - (WK 2)	Key Vocabulary	Homework
<p>how to expand a pair of brackets;</p> <p>how to factorise by finding a common factor.</p> <p>Extended Task.</p>		Inequality	



In LP2.7, I will know:	16/12/24 - (WK 1)	Key Vocabulary	Homework
<p>how to factorise quadratic expressions;</p> <p>how to solve quadratic equations by factorisation.</p>		Factorise	

Resources to support learning:
<p>Use your knowledge organisers to support with revision and recall. Here are some online resources to further support you in your Mathematics revision beyond the classroom. All weekly homework tasks area based on the exercises from the book. In addition to homework, Pupils should use questions not used in class plus the review exercises to help support learning from outside the classroom.</p> <p>Online Resource for homework and exam practice: <a href="https://www.drfrostmaths.com/">https://www.drfrostmaths.com/</a>. Topic based exam questions - <a href="https://www.mathsgenie.co.uk/">https://www.mathsgenie.co.uk/</a></p>

FEET Award Challenge for this Learning Programme:
<p>Independently complete an exam question on a topic of your choice from LP2.</p>