

Year 10 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>What will I be learning about in this Learning Programme?</p> <p>In LP2 I will be learning about equations, inequalities and graphs.</p> <p>Where have I seen this learning before?</p> <p>KS3: solving equations, interpreting inequalities, formulae, lines parallel to the axes, expanding brackets and simple factorisation.</p> <p>What could I use it for?</p> <p>The knowledge and skills I will learn in this learning programme will allow me to solve algebraic problems with one or two variables this includes representing algebraic functions graphically. 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:</p> <p>how to form and solve equations; including with unknowns on both sides; how to form and solve inequalities; including with unknowns on both sides; how to show solutions to inequalities on a number line and interpret representations on number lines as inequalities.</p>	<p>21/10/24 - (WK 2)</p> <p>Key Vocabulary</p> <p>Variable</p>	<p>Homework</p> <p>LP1:7 Consolidation Sparx Maths</p>
<p>In LP2.2, I will know:</p> <p>how to solve a pair of linear simultaneous equations by adjusting one equation; how to solve a pair of linear simultaneous equations by adjusting both equations; how to solve a pair of linear simultaneous equations by using graphs.</p>	<p>04/11/24 - (WK 1)</p> <p>Key Vocabulary</p> <p>Simultaneous</p>	<p>Homework</p> <p>LP2:1 Topics plus consolidation Sparx Maths</p>
<p>LP2 RLW, I will:</p> <p>review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.</p>	<p>11/11/24 - (WK 2)</p>	<p>Homework</p> <p>Consolidation Sparx Maths</p>
<p>In LP2.3, I will know:</p> <p>how to form and use formulae; how to rearrange formulae by changing the subject; how to rearrange formulae by changing the subject and where the unknown appears more than once.</p> <p>Extended Task.</p>	<p>18/11/24 - (WK 1)</p> <p>Key Vocabulary</p> <p>Rearrange</p>	<p>Homework</p> <p>LP2:2 Topics plus consolidation Sparx Maths</p>
<p>In LP2.4, I will know:</p> <p>how to accurately plot straight line graphs; how to interpret the equation of a straight line; including rearranging into $y=mx+c$ form; how to find the equation of a line from its gradient and a point.</p>	<p>25/11/24 - (WK 2)</p> <p>Key Vocabulary</p> <p>Gradient</p>	<p>Homework</p> <p>LP2:3 Topics plus consolidation Sparx Maths</p>
<p>In LP2.5, I will know:</p> <p>how to find the equation of a line from two points; how to find the equation of lines that are parallel to each other.</p>	<p>02/12/24 - (WK 1)</p> <p>Key Vocabulary</p> <p>Parallel</p>	<p>Homework</p> <p>LP2:4 Topics plus consolidation Sparx Maths</p>
<p>In LP2.6, I will know:</p> <p>how to factorise quadratic expressions; how to solve quadratic equations by factorisation when $a=1$.</p> <p>Extended Task.</p>	<p>09/12/24 - (WK 2)</p> <p>Key Vocabulary</p> <p>Quadratic</p>	<p>Homework</p> <p>LP2:5 Topics plus consolidation Sparx Maths</p>
<p>In LP2.7, I will know:</p> <p>how to accurately plot a quadratic graph; how to draw and interpret graphs of cubic and reciprocal functions.</p>	<p>16/12/24 - (WK 1)</p> <p>Key Vocabulary</p> <p>Reciprocal</p>	<p>Homework</p> <p>LP2:6 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 4 XP Boost Tasks on Sparx Maths</p>		

PRT Task 1

PRT Task 2