

Year 11 Higher - Set 2

Learning Programme 4

<p>The LORIC skill focus for this LP is: INITIATIVE.</p> <p>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.</p> <p>Gratitude - Feeling and expressing thanks. I will show gratitude by saying please and thank you.</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>What will I be learning about in this Learning Programme?</p> <p>In LP4, I will be learning about trigonometry, graphs, statistical diagrams, surface area, volume and construction.</p>		
<p>Where have I seen this learning before?</p> <p>Year 10: all topics are revision and have been covered in year 10.</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 geometrical problems involving triangles.</p>		

In LP4.1, I will know:	09/03/26 - (WK 2)	Frayer Model Words	Homework
<p>how to calculate missing sides using Pythagoras' theorem;</p> <p>how to calculate missing sides on a right-angled triangle using trigonometry;</p> <p>how to calculate missing angles on a right-angled triangle using trigonometry.</p>		Hypotenuse	LP3:7 Consolidation Sparx Maths

In LP4.2, I will know:	16/03/26 - (WK 1)	Frayer Model Words	Homework
<p>how to plot and interpret linear graphs;</p> <p>how to find the equation of linear graphs;</p> <p>how to plot and interpret quadratic graphs.</p>		Roots	LP4:1 Topics plus consolidation Sparx Maths

In LP4.3, I will know:	23/03/26 - (WK 2)	Frayer Model Words	Homework
<p>how to plot and interpret scatter graphs;</p> <p>how to plot and interpret frequency polygons;</p> <p>how to plot and interpret cumulative frequency diagrams and box plots.</p> <p>Extended Task.</p>		Correlation	LP4:2 Topics plus consolidation Sparx Maths

In LP4.4, I will know:	13/04/26 - (WK 1)	Frayer Model Words	Homework
<p>how to use angle facts to solve problems;</p> <p>how to use angle facts on parallel lines to solve multi-step problems;</p> <p>how to solve angle problems in polygons.</p>		Co-interior	LP4:3 Topics plus consolidation Sparx Maths

In LP4.5, I will know:	20/04/26 - (WK 2)	Frayer Model Words	Homework
<p>how to solve problems with surface area;</p> <p>how to solve problems involving volume.</p>		Cross-section	LP4:4 Topics plus consolidation Sparx Maths

In LP4.6, I will know:	27/04/26 - (WK 1)	Frayer Model Words	Homework
<p>how to construct perpendicular bisectors and angle bisectors;</p> <p>how to construct triangles;</p> <p>how to use construction techniques to solve loci problems.</p> <p>Extended Task.</p>		Bisector	LP4:5 Topics plus consolidation Sparx Maths

In LP4.7, I will know:	04/05/26 - (WK 2)	Frayer Model Words	Homework
<p>how to use angle knowledge to determine angle sizes in a pie chart;</p> <p>how to draw pie charts;</p> <p>how to interpret pie charts.</p>		Degree	LP4:6 Topics plus consolidation Sparx Maths

Resources to support learning:
<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>

FFET Award Challenge for this Learning Programme:
<p>Create a set of flash cards for calculating missing sides and angles in right angled triangles using trigonometry.</p>

