Year 8   Mathematics
Learning Programme 4

The LORIC skill focus for his LP is: INITIATIVE.
The Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE.

Integrity - Having strong moral principles.
Gratitude - Feeling and expressing thanks.

What will I be learning about in this Learning Programme?
In LP4 I will be learning about linear graphs, transformations and angles.

Where have I seen this learning before?
Year 7: symmetry, coordinates, simple angle rules.

What could I use it for?
The knowledge and skills I will learn in this learning programme will allow me to solve geometrical problems involving angles. Later I will apply this to more complex problems involving similar shapes.

Literacy:
• 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

In LP4.1, I will know:	10/03/25 - (WK 2)	Key Vocabulary	Homework
how to identify and draw lines that are parallel to the axes; how to recognise and use the line y=x and lines of the form y=kx; how to recognise and use lines of the form y=x+a.		Linear	LP3:7 Consolidation Sparx Maths
In LP4.2, I will know: 17/03/25 - (WK 1)		**Key Vocabulary**	**Homework**
how to plot graphs of the form y=mx+c; how to find the gradient of a line; how to find the equation of a linear graph.		Gradient	LP4:1 Topics plus consolidation Sparx Maths
In LP4.3, I will know: 24/03/25 - (WK 2)		**Key Vocabulary**	**Homework**
how to draw and describe reflections of a shape in a horizontal or vertical line; how to draw and describe translations using words. Extended Task.		Translate	LP4:2 Topics plus consolidation Sparx Maths
In LP4.4, I will know: 31/03/25 - (WK 1)		**Key Vocabulary**	**Homework**
how to draw and describe rotations; how to draw and describe enlargements with a positive scale factor.		Transformation	LP4:3 Topics plus consolidation Sparx Maths
In LP4.5, I will know: 21/04/25 - (WK 2)		**Key Vocabulary**	**Homework**
how to find angles between parallel lines and the transversal; how to identify and calculate with co-interior, alternate and corresponding angles.		Corresponding	LP4:4 Topics plus consolidation Sparx Maths
In LP4.6, I will know: 28/04/25 - (WK 1)		**Key Vocabulary**	**Homework**
how to solve complex problems with parallel line angles; how to identify and calculate with sides and angles in special quadrilaterals; how to use the properties of quadrilaterals to calculate sides and angles. Extended Task.		Co-interior	LP4:5 Topics plus consolidation Sparx Maths
In LP4.7, I will know: 05/05/25 - (WK 2)		**Key Vocabulary**	**Homework**
how to use the sum of exterior angles of any polygon; how to use the sum of interior angles and calculate missing interior angles in regular polygons.		Exterior	LP4:6 Topics plus consolidation Sparx Maths

PRT Task 1 (arrow marker beside LP4.4)

PRT Task 2 (arrow marker beside LP4.7)

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.

FFET Award Challenge for this Learning Programme:
Complete 4 XP Boost or Target Tasks on Sparx Maths