

Year 9 Mathematics

Learning Programme 4

The LORIC skill focus for his LP is: INITIATIVE. The Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE.		Literacy: <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
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 non-linear graphs, angles, transformations, similar and congruent shapes.		
Where have I seen this learning before? Year 8: simple reflections, translations in words, enlargements without a centre.		
What could I use it for? The knowledge and skills I will learn in this learning programme will allow me to solve geometrical problems. Later I will apply this to more complex problems involving similar shapes.		

In LP4.1, I will know:	10/03/25 - (WK 2)	Key Vocabulary	Homework
how to use conversion graphs; how to draw and interpret distance-time graphs; how to calculate the speed from a distance-time graph.		Velocity	LP3:7 Consolidation Sparx Maths

In LP4.2, I will know:	17/03/25 - (WK 1)	Key Vocabulary	Homework
how to find unknown angles in triangles; how to find unknown angles in quadrilaterals; how to identify vertically opposite angles.		Root	LP4:1 Topics plus consolidation Sparx Maths

In LP4.3, I will know:	24/03/25 - (WK 2)	Key Vocabulary	Homework
how to solve angles on parallel lines problems and give reasons; how to find and use exterior angles of regular polygons; how to use the sum of angles in polygons.		Co-interior	LP4:2 Topics plus consolidation Sparx Maths
Extended Task.			

In LP4.4, I will know:	31/03/25 - (WK 1)	Key Vocabulary	Homework
how to identify line symmetry in shapes and patterns; how to identify rotational symmetry in shapes and patterns; how to compare and contrast rotational symmetry with line symmetry.		Bearing	LP4:3 Topics plus consolidation Sparx Maths

In LP4.5, I will know:	21/04/25 - (WK 2)	Key Vocabulary	Homework
how to draw and describe reflections in diagonal lines; how to draw and describe a rotation; how to translate points and shapes by a given vector.		Vector	LP4:4 Topics plus consolidation Sparx Maths

In LP4.6, I will know:	28/04/25 - (WK 1)	Key Vocabulary	Homework
how to compare rotation and reflection of shapes; how to draw and describe enlargements a shape by a positive integer scale factor.		Transformation	LP4:5 Topics plus consolidation Sparx Maths
Extended Task.			

In LP4.7, I will know:	05/05/25 - (WK 2)	Key Vocabulary	Homework
how to identify similar shapes and find the scale factor; how to identify congruent figures; how to identify congruent triangles.		Congruent	LP4:6 Topics plus consolidation Sparx Maths

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

