

Year 11 Foundation Mathematics

Learning Programme 1

The LORIC skill focus for this LP is: LEADERSHIP The Moral Virtues focus for this LP are: COURAGE and HUMILITY. Courage - Acting with bravery and overcoming fears. Humility - Having a modest view of oneself. What will I be learning about in this Learning Programme? In LP1 I will be learning about linear graphs, quadratic graphs, cubic and reciprocal graphs, construction, rotations, reflections, translation, enlargements. Where have I seen this learning before? Plotting linear and simple quadratic graphs, sequences, symmetry, rotations, enlargements What could I use it for? The knowledge and skills I will learn in this learning programme will allow me to complete all four transformations on an object. These skills are used by architects.			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 LP1.1, I will know: how to solve problems involving laws of indices; how to work with powers of ten and standard form; how to calculate with numbers in standard form.	31/08/26 - (WK 1)	Frayer Model Words Index	Homework Yr10 consolidation Sparx Maths
In LP1.2, I will know: how to use substitution to generate coordinates and plot a linear graph; how to find the equation of a linear graph; how to identify the gradient of parallel and perpendicular lines.	07/09/26 - (WK 2)	Frayer Model Words Linear	Homework LP1:1 Topics plus consolidation Sparx Maths
In LP1.3, I will know: how to use substitution to generate coordinates and plot quadratics graphs; how to interpret quadratic graphs and intersection points with the axis; how to identify cubic and reciprocal graphs. Extended Task.	14/09/26 - (WK 1)	Frayer Model Words Quadratic	Homework LP1:2 Topics plus consolidation Sparx Maths
In LP1.4, I will know: how to construct angle bisectors; how to construct perpendicular bisectors; how to construct perpendicular bisectors from a given point.	21/09/26 - (WK 2)	Frayer Model Words Bisect	Homework LP1:3 Topics plus consolidation Sparx Maths
In LP1.5, I will know: how to construct triangles given ASA; how to construct a triangle given SAS; how to construct a triangle given SSS.	28/09/26 - (WK 1)	Frayer Model Words Construct	Homework LP1:4 Topics plus consolidation Sparx Maths
In LP1.6, I will know: how to rotate a shape about a given point and describe a rotation; how to identify and name lines parallel to the axis; how to reflect a shape in given line and describe reflections. Extended Task.	05/10/26 - (WK 2)	Frayer Model Words Rotate	Homework LP1:5 Topics plus consolidation Sparx Maths
In LP1.7, I will know: how to translate a shape by a given vector; how to describe a translation using vector notation.	12/10/26 - (WK 1)	Frayer Model Words Vector	Homework LP1:6 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. They can simply search the following topics: graphs, quadratic graphs, cubic and reciprocal graphs, construction, rotations, reflections, translation, enlargements. 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: Construct an accurate hexagon using equilateral triangles. Only use a pair of compasses and a ruler. For an added challenge produce a tessellation pattern using constructed hexagons.			

