



Year 9 Maths Learning Programme 4

Reading texts that pupils will study during the learning programme

Loric for LP4 is Initiative

The value we are learning about is Justice and Integrity:

Justice-Fairbehaviourortreatment

Integrity - Being honest and having strong moral principles

What will I be learning about in this Learning Programme?

Rotation & translation, Pythagoras' theorem, enlargement & similarity, proportion.

Where have I seen this learning before?

Coordinates, square and square roots, scale factors

What could I use it for?

n combination with other tonics to colve multi-step problems in VC2 and VC4

Problemsolving questions on rotation of a shape, enlargement of a shape, Pythagoras' theorem





in combination with other topics to solve multi step problems in KS3 and KS4.			
In LP4.1, I will know: 11/03/24 - (WK 1)	PR Focus	KeyVocabulary	Homework
how to identify the order of rotational symmetry of a shape;			
how to compare and contrast rotational symmetry with line symmetry;		rotation	complete math swatch clip number G7
how to rotate a shape about a point on a shape.			
In LP4.2, I will know: 18/03/24 - (WK 2)	PR Focus	KeyVocabulary	Homework
how to rotate a shape about a point not on a shape;		Translation, Reflection,	
how to translate points and shapes by a given vector;		Orientation,	complete math swatch clip number G5
how to compare rotation and reflection of shapes.		Offertation,	
In LP4.3, I will know: 08/04/24 - (WK 1)	PR Focus	Key Vocabulary	Homework
how to identify the hypotenuse of a right-angled triangle;			
how to determine whether a triangle is right-angled;		Hypotenuse, Pythagoras'	complete math swatch clip number G16
how to calculate the hypotenuse of a right-angled triangle.		theorem	
Extended Task			
In LP4.4, I will know: 15/04/24 - (WK 2)	PR Focus	KeyVocabulary	Homework
how to calculate missing sides in right-angled triangle;			
how to use Pythagoras' theoremon coordinate axes;		Line segment, Midpoint	complete math swatch clip number G30
how to explore proofs of Pythagoras' theorem.			
In LP4.5, I will know: 22/04/24 - (WK1)	PR Focus	KeyVocabulary	Homework
how to prepare for an assessment;			
assessment.			complete math swatch clip number R10
In LP4.6, I will know: 29/04/24 - (WK 2)	PR Focus	KeyVocabulary	Homework
how to recognise enlargement and similarity;		Enlargement, Similar,	
how to work out missing sides and angles in a pair of given similar shapes;		Scale factor, Centre of	complete math swatch clip number G28
how to enlarge a shape by a positive integer scale factor.		enlargement,	
Extended Task			
In LP4.7, I will know: 06/05/24 - (WK 1)	PR Focus	KeyVocabulary	Homework
how to enlarge a shape by a positive integer scale factor from a point;			
how to enlarge a shape by a positive fractional scale factor.		Fractional scale factor	complete math swatch clip number G28
In LP4.8, I will know: 13/05/24 - (WK 2)	PR Focus	KeyVocabulary	Homework
how to solve problems with direct proportion;		Direct proportion,	
how to use direct proportion and conversion graphs;		conversion graph,	complete math swatch clip number R8
how to solve problems with inverse proportion.		Inverse proportion	

Students will be given login details by their class teacher. Ho mework will be linked to clip numbers on this website. FFET Award Challenge for this Learning Programme:

Resources to support learning:

Attend an extra-curricular club, represent the academy at an event, attend an enrichment day, receive a subject praise postcard, attend a day trip, attend a head of year breakfast or afternoon tea, achieve 100 positive points on class charts, receive a letter of commendation from SLT, be invited to a wonderful Wednesday, receive a principals letter or be invited to a principals lunch, attend a residential trip, achieve the Duke of Edinburgh bronze award.