

Year 9 Set 5 Mathematics

Learning Programme 5

The LORIC skill focus for this LP is: COMMUNICATION.

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 LP5 I will be learning about similar shapes, proportional reasoning, compound measures and probability.

Where have I seen this learning before?

Year 8: understand and use scale factors, conversion graphs, similar shapes, metric conversions, link gradient and ratio.

What could I use it for?

The knowledge and skills I will learn in this learning programme will allow me to solve problems involving proportion and be able to link this to enlargements and similar shapes. I will solve problems involving compound measures and make links to other subjects such as science. I will develop the language of probability and solve problems involving both theoretical and experimental probabilities.

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 LP5.1, I will know:	13/05/24 - (WK 1)	Key Vocabulary	Homework
how to translate points and line segments; how to translate shapes and line segments; how to describe a translation.		Translate	LP4 consolidation Sparx Maths
In LP5.2, I will know:	20/05/24 - (WK 2)	Key Vocabulary	Homework
how to enlarge a shape on a grid; how to a shape about a given point; how to describe an enlargement.		Scale Factor	LP5:1 Topics plus consolidation Sparx Maths
In LP5.3, I will know:	03/06/24 - (WK 1)	Key Vocabulary	Homework
how to recognise similar shapes; how to calculate sides and angles of similar shapes.		Similar	LP5:2 Topics plus consolidation Sparx Maths
Extended Task.			
In LP5.4, I will know:	10/06/24 - (WK 2)	Key Vocabulary	Homework
how to solve direct proportion problems; how to draw and interpret conversion graphs; how to solve best buy problems.		Proportion	LP5:3 Topics plus consolidation Sparx Maths
In LP5.5, I will know:	17/06/24 - (WK 1)	Key Vocabulary	Homework
how to simplify ratios; how to share an amount in a given ratio.		Ratio	LP5:4 Topics plus consolidation Sparx Maths
In LP5.6, I will know:	24/06/24 - (WK 2)	Key Vocabulary	Homework
how to solve problems involving time and speed; how to calculate speed; how to draw and interpret distance-time graphs.		Speed	LP5:5 Topics plus consolidation Sparx Maths
Extended Task.			
In LP5.7, I will know:	01/07/24 - (WK 1)	Key Vocabulary	Homework
how to solve single event probability problems; how to draw and interpret Venn diagrams; how to calculate the probability of an event not happening.		Relative Frequency	LP5:6 Topics plus consolidation Sparx Maths
In LP5.8, I will know:	08/07/24 - (WK 2)	Key Vocabulary	Homework
how to solve experimental probability problems; how to calculated expected outcomes.		Independent	LP5:7 Topics plus consolidation Sparx Maths

PRT Task 1

PRT Task 2

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 Tasks on Sparx Maths