

Year 10 Mathematics Learning Programme 1

The LORIC skill focus for his 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 percentages, ratio, compound measures and real life graphs. Where have I seen this learning before? KS3: percentages, ratio, straight line graphs. What could I use it for? The knowledge and skills I will learn in this learning programme will allow me to my understanding of proportion to solve compound measures problems. These skills are used by engineers and chemists.		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 add and subtract with fractions and mixed numbers; how to multiply and divide with fractions and mixed numbers; how to solve problems with fractions and mixed numbers.		31/08/26 - (WK 1) Frayer Model Words Denominator	Homework Yr9 consolidation Sparx Maths
In LP1.2, I will know: how to increase and decrease by a given percentage; how to solve reverse percentages problems; how to calculate percentage change.		07/09/26 - (WK 2) Frayer Model Words Compound	Homework LP1:1 Topics plus consolidation Sparx Maths
In LP1.3, I will know: how to calculate simple and compound interest; how to solve problems involving percentages, ratios and fractions. Extended Task.		14/09/26 - (WK 1) Frayer Model Words Depreciation	Homework LP1:2 Topics plus consolidation Sparx Maths
In LP1.4, I will know: how to share an amount into a given ratio; how to solve problems with ratios.		21/09/26 - (WK 2) Frayer Model Words Direct Proportion	Homework LP1:3 Topics plus consolidation Sparx Maths
In LP1.5, I will know: how to solve direct and inverse proportion problems; how to solve 'best buy' problems; how to solve problems with currency conversion.		28/09/26 - (WK 1) Frayer Model Words Inverse Proportion	Homework LP1:4 Topics plus consolidation Sparx Maths
In LP1.6, I will know: how to calculate with speed, distance and time; how to calculate with density, mass and volume ; how to calculate with pressure, area and force. Extended Task.		05/10/26 - (WK 2) Frayer Model Words Density	Homework LP1:5 Topics plus consolidation Sparx Maths
In LP1.7, I will know: how to draw and interpret velocity-time graphs; how to calculate the gradient (i.e. the acceleration) from a velocity-time graph.		12/10/26 - (WK 1) Frayer Model Words Acceleration	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: percentages, ratio, compound measures and real life graphs. 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: Time yourself completing your journey to school. Create a distance-time graph and a velocity-time showing the information.			

PRT Task 1

PRT Task 2