

Year 9 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 fractions and percentages, solving equations, solving inequalities, expanding and simplifying brackets and solving quadratics. Where have I seen this learning before? Year 8: fractions and percentages of amounts, expressions, identities and equations, generate sequences from an algebraic rule, form and solve equations with brackets. What could I use it for? The knowledge and skills I will learn in this learning programme will allow me to apply my knowledge of fractions and percentages to careers and working out salary information. These skills are used when calculating tax and national insurance.		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 increase or decrease by a given percentage with or without a calculator; how to solve percentage problems with or without a calculator.	31/08/26 - (WK 1) Frayer Model Words Tax	Homework Yr8 consolidation Sparx Maths
In LP1.2, I will know: how to express a change as a percentage; how to solve 'reverse' percentage problems; how to calculate simple interest.	07/09/26 - (WK 2) Frayer Model Words Inverse	Homework LP1:1 Topics plus consolidation Sparx Maths
In LP1.3, I will know: how to solve relative frequency problems; how to calculate expected outcomes; how to use diagrams to work out probabilities. Extended Task.	14/09/26 - (WK 1) Frayer Model Words Relative Frequency	Homework LP1:2 Topics plus consolidation Sparx Maths
In LP1.4, I will know: how to calculate with numbers in standard form (non-calculator); how to use a calculator to work with numbers in standard form.	21/09/26 - (WK 2) Frayer Model Words Index	Homework LP1:3 Topics plus consolidation Sparx Maths
In LP1.5, I will know: how to solve inequalities with unknowns on both sides including representing on number lines; how to solve inequalities in context including representing on number lines; how to solve double inequalities.	28/09/26 - (WK 1) Frayer Model Words Inequality	Homework LP1:4 Topics plus consolidation Sparx Maths
In LP1.6, I will know: how to expand a pair of brackets; how to factorise into a single bracket using common factors; how to factorise quadratic expressions (when a=1). Extended Task.	05/10/26 - (WK 2) Frayer Model Words Factorise	Homework LP1:5 Topics plus consolidation Sparx Maths
In LP1.7, I will know: how to factorise using the difference of two squares; how to solve quadratic equations by factorising (when a =1).	12/10/26 - (WK 1) Frayer Model Words Quadratic	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: fractions and percentages, solving equations, solving inequalities, expanding and simplifying brackets and solving quadratics. 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: Create a scaled drawing or model of the solar system. Use standard form to show the distances between the sun and each planet.		

