

Year 7 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 sequences, function machines, substitution, fact families, equality and equivalence. Where have I seen this learning before? Year 6: use simple formulae, generate and describe linear sequences, express missing number problems algebraically, find pairs of numbers that satisfy an equation with two unknowns What could I use it for? The knowledge and skills I will learn in this learning programme will allow me to interpret patterns in sequences, identify linear and non-linear sequences, use algebra to represent unknown variables, identify like terms and simplify expressions. These skills are used in economics and finance.			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 continue linear and non-linear sequences; how to identify the term to term rule of a sequence; how to find the nth term of a linear sequence ($3n$, $4n$ etc).	31/08/26 - (WK 1)	Frayer Model Words Linear	Homework KS2 consolidation Sparx Maths
In LP1.2, I will know: how to use diagrams and letters with simple function machines; how to find inputs and outputs for a series of two function machines; how to find the function machine when given more complex expressions involving addition, subtraction, multiplication, division, powers and roots.	07/09/26 - (WK 2)	Frayer Model Words Function	Homework LP1:1 Topics plus consolidation Sparx Maths
In LP1.3, I will know: how to form function machines from algebraic expressions; how to use fact families numerically; how to simplify algebraic expressions by collecting like terms. Extended Task.	14/09/26 - (WK 1)	Frayer Model Words Algebraic Term	Homework LP1:2 Topics plus consolidation Sparx Maths
In LP1.4, I will know: how to substitute positive integers into a single operation expression involving multiplication and division; how to substitute positive integers into two step expressions; how to substitute into formulae.	21/09/26 - (WK 2)	Frayer Model Words Equivalence	Homework LP1:3 Topics plus consolidation Sparx Maths
In LP1.5, I will know: how to solve one step linear equations; how to solve two step linear equations; how to solve equations with fractions involved.	28/09/26 - (WK 1)	Frayer Model Words Equality	Homework LP1:4 Topics plus consolidation Sparx Maths
In LP1.6, I will know: how to recognise the value of any number in an integer up to one billion; how to compare and order decimals up to one billion; how to Write 10, 100, 1000 etc as powers of 10. Extended Task.	05/10/26 - (WK 2)	Frayer Model Words Integer	Homework LP1:5 Topics plus consolidation Sparx Maths
In LP1.7, I will know: how to calculate with negatives; how to order a list of integers and compare two numbers using $=$, $\neq$, $<$, $>$, $\leq$ and $\geq$.	12/10/26 - (WK 1)	Frayer Model Words Negative	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: sequences, function machines, substitution, fact families, equality and equivalence.			
FFET Award Challenge for this Learning Programme: Accurately construct a perfect Golden Spiral.			

PRT Task 1

PRT Task 2