

Year 7 Mathematics

Learning Programme 4

<p>The LORIC skill focus for this LP is: INITIATIVE.</p> <p>The Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE.</p> <p>Integrity - Having strong moral principles.</p> <p>Gratitude - Feeling and expressing thanks.</p> <p>What will I be learning about in this Learning Programme? In LP4 I will be learning about calculating with fractions, solving fraction problems, calculating unknown angles in geometrical situations, constructing shapes and solving angle problems.</p> <p>Where have I seen this learning before? Year 6: compare and order fractions including fractions with a denominator greater than 1, recognise mixed numbers and improper fractions and convert from one form to the other, add and subtract fractions with different denominators that are multiples of the same number find unknown angles in triangles, quadrilaterals and regular polygons, recognise angle that meet at a point and on a line, compare 2D shapes based on their properties, draw 2-D shapes, interpret and construct pie charts.</p> <p>What could I use it for? The knowledge and skills I will learn in this learning programme will allow me to use knowledge of multiples to add and subtract fractions and use knowledge of classifying angles to estimate and check answers when calculating with angles.</p>	<p>Literacy:</p> <ul style="list-style-type: none"> • 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
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In LP4.1, I will know:	04/03/24 - (WK 1)	Key Vocabulary	Homework
<p>how to multiply and divide with directed numbers;</p> <p>how to use order of operations with directed numbers and evaluate algebraic expressions with directed number;</p> <p>how to solve two-step equations.</p>		Negative	LP3 consolidation Sparx Maths

In LP4.2, I will know:	11/03/24 - (WK 2)	Key Vocabulary	Homework
<p>how to represent fractions;</p> <p>how to convert between mixed numbers and fractions;</p> <p>how to add and subtract any fractions with the same denominator.</p>		Denominator	LP4:1 Topics plus consolidation Sparx Maths



In LP4.3, I will know:	18/03/24 - (WK 1)	Key Vocabulary	Homework
<p>how to add and subtract fractions from integers expressing the answer as a single fraction;</p> <p>how to use equivalent fractions;</p> <p>how to add and subtract fractions with any denominator.</p>		Numerator	LP4:2 Topics plus consolidation Sparx Maths
Extended Task.			

In LP4.4, I will know:	25/03/24 - (WK 2)	Key Vocabulary	Homework
<p>how to add and subtract improper fractions and mixed numbers;</p> <p>how to use fractions in algebraic contexts;</p> <p>how to use equivalence to add and subtract decimals and fractions.</p>		Equivalent	LP4:3 Topics plus consolidation Sparx Maths

In LP4.5, I will know:	15/04/24 - (WK 1)	Key Vocabulary	Homework
<p>how to use angles as a measure of turn;</p> <p>how to classify angles;</p> <p>how to draw and measure angles up to 360 degrees.</p>		Obtuse	LP4:4 Topics plus consolidation Sparx Maths



In LP4.6, I will know:	22/04/24 - (WK 2)	Key Vocabulary	Homework
<p>how to identify parallel and perpendicular lines and recognise types of triangles;</p> <p>how to identify polygons up to decagons and recognise types of quadrilaterals;</p> <p>how to construct triangles using SSS, SAS and ASA.</p>		Perpendicular	LP4:5 Topics plus consolidation Sparx Maths
Extended Task.			

In LP4.7, I will know:	29/04/24 - (WK 1)	Key Vocabulary	Homework
<p>how to construct more complex polygons;</p> <p>how to interpret pie charts using proportion and using a protractor;</p> <p>how to draw pie charts.</p>		Proportion	LP4:6 Topics plus consolidation Sparx Maths

In LP4.8, I will know:	06/05/24 - (WK 2)	Key Vocabulary	Homework
<p>how to use the sum of angles at a point and on a straight line;</p> <p>how to apply the sum of angles in a triangle and in quadrilaterals;</p> <p>how to solve angle problems.</p>		Quadrilateral	LP4:1 Topics plus consolidation Sparx Maths

Resources to support learning:
<p>Pupils have access to knowledge organisers, Mathswatch 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.</p>

FFET Award Challenge for this Learning Programme:
<p>Complete 4 XP Boost Tasks on Sparx Maths</p>