

Year 7 Mathematics

Learning Programme 5

<p>The LORIC skill focus for this LP is: COMMUNICATION.</p> <p>The Moral Virtues focus for this LP are: COURAGE and HUMILITY.</p> <p>Courage - Acting with bravery and overcoming fears.</p> <p>Humility - Having a modest view of oneself.</p> <p>What will I be learning about in this Learning Programme? In LP5 I will be learning about using division, factors and multiples, probability and making conjectures.</p> <p>Where have I seen this learning before? Year 6: solve addition and subtraction problems in context, identify common factors, multiples and prime numbers, use estimation to check calculations, multiply and divide up to 4 digits by 2 digits.</p> <p>What could I use it for? The knowledge and skills I will learn in this learning programme will allow me to solve problems involving prime factorisation and multiples and factors. I will learn the language associated with probability and start to make mathematical conjectures.</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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<p>In LP5.1, I will know: 13/05/24 - (WK 1)</p> <p>how to use the sum of angles at a point and on a straight line; how to apply the sum of angles in a triangle and in quadrilaterals; how to solve angle problems.</p>	<p>Key Vocabulary</p> <p>Quadrilateral</p>	<p>Homework</p> <p>LP4 consolidation Sparx Maths</p>
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<p>In LP5.2, I will know: 20/05/24 - (WK 2)</p> <p>how to use mental multiplication and division strategies for integers; how to use mental strategies for decimals.</p>	<p>Key Vocabulary</p> <p>Divisor</p>	<p>Homework</p> <p>LP5:1 Topics plus consolidation Sparx Maths</p>
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<p>In LP5.3, I will know: 03/06/24 - (WK 1)</p> <p>how to use factors to simplify calculations; how to use estimation as a method for checking mental calculations; how to use known number facts to derive other facts.</p> <p>Extended Task.</p>	<p>Key Vocabulary</p> <p>Factor</p>	<p>Homework</p> <p>LP5:2 Topics plus consolidation Sparx Maths</p>
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<p>In LP5.4, I will know: 10/06/24 - (WK 2)</p> <p>how to identify and represent sets; how to interpret and create Venn diagrams; how to find and use the intersection of sets.</p>	<p>Key Vocabulary</p> <p>Intersection</p>	<p>Homework</p> <p>LP5:3 Topics plus consolidation Sparx Maths</p>
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<p>In LP5.5, I will know: 17/06/24 - (WK 1)</p> <p>how to find and use the union of sets; how to use the vocabulary of probability.</p>	<p>Key Vocabulary</p> <p>Union</p>	<p>Homework</p> <p>LP5:4 Topics plus consolidation Sparx Maths</p>
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<p>In LP5.6, I will know: 24/06/24 - (WK 2)</p> <p>how to generate sample spaces for single events; how to calculate the probability of a single event; how to use the probability scale and know that the sum of probabilities of all possible outcomes is 1.</p> <p>Extended Task.</p>	<p>Key Vocabulary</p> <p>Independent</p>	<p>Homework</p> <p>LP5:5 Topics plus consolidation Sparx Maths</p>
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<p>In LP5.7, I will know: 01/07/24 - (WK 1)</p> <p>how to find and use multiples and find common multiples of a set of numbers including the LCM; how to identify factors of numbers and find common factors of a set of numbers including the HCF; how to identify prime numbers.</p>	<p>Key Vocabulary</p> <p>Co-prime</p>	<p>Homework</p> <p>LP5:6 Topics plus consolidation Sparx Maths</p>
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<p>In LP5.8, I will know: 08/07/24 - (WK 2)</p> <p>how to recognise and use square and triangular numbers; how to write a number as a product of its prime factors; how to make, test and disprove conjectures.</p>	<p>Key Vocabulary</p> <p>Conjecture</p>	<p>Homework</p> <p>LP5:7 Topics plus consolidation Sparx Maths</p>
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<p>Resources to support learning:</p> <p>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.</p>
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<p>FFET Award Challenge for this Learning Programme:</p> <p>Complete 4 XP Boost Tasks on Sparx Maths</p>
