

## Maths

### Learning Programme 4

<p>The LORIC skill focus for this LP is: INITIATIVE. The Moral Values foci for this LP are: INTEGRITY and GRATITUDE.</p> <p>Integrity - Having strong moral principles. I will show integrity by taking responsibility for my actions. Gratitude - Feeling and expressing thanks. I will show gratitude by saying please and thank you.</p> <p><b>What will I be learning about in this Learning Programme?</b> I will be completing work on Geometry including finding missing angles and missing lengths. I will understand basic co-ordinate Geometry finding the equations of lines and calculating the gradient. I will learn how to work with bearings and make accurate constructions.</p> <p><b>Where have I seen this learning before?</b> I have seen this learning throughout KS3 and KS4 maths in several different topics. I learned how to find missing angles using angle rules such as angles on a straight line, around a point, and in triangles and parallel lines, as well as finding missing lengths using basic algebra and geometric reasoning. I was also introduced to co-ordinate geometry, where I plotted points, found gradients, and began to understand straight-line graphs. In KS3 I used protractors and compasses to measure angles, draw accurate diagrams, and solve real-life problems involving direction and scale.</p> <p><b>What could I use it for?</b> In combination with other topics to solve multi-step problems.</p>		<p><b>Literacy Non-Negotiables:</b></p> <ul style="list-style-type: none"> <li>Capital letters must be used at the start of sentences and for the first letter of proper nouns</li> <li>Full stops must be used at the end of a sentence</li> <li>Question marks must be used at the end of a question</li> <li>Apostrophes should only be used for possession or omission</li> <li>Days of the week and months must be spelled correctly</li> <li>Key words must be spelled correctly</li> <li>Vocabulary to be taught using the Frayer model</li> </ul>
<p><b>In LP4.1, I will know:</b></p> <p>how to calculate missing angles in parallel lines how to calculate missing angles in polygons</p>	<p>09/03/26 - (WK 2)</p> <p>Frayer Model Words</p> <p>Parallel</p>	<p>Homework</p> <p>Complete your weekly homework on <a href="https://spaxmaths.com/">https://spaxmaths.com/</a></p>
<p><b>In LP4.2, I will know:</b></p> <p>how to use Pythagoras' theorem to find the missing side in a right angled triangle how to use the Trigonometric ratios to calculate missing sides and angles in right angled triangles</p>	<p>16/03/26 - (WK 1)</p> <p>Frayer Model Words</p> <p>Angle</p>	<p>Homework</p> <p>Complete your weekly homework on <a href="https://spaxmaths.com/">https://spaxmaths.com/</a></p>
<p><b>In LP4.3, I will know:</b></p> <p>how to use the equation <math>y=mx+c</math> to identify the gradient and intercept of a straight line, and determine whether lines are parallel how to calculate and interpret the gradient of a line from graphs, equations, and pairs of co-ordinates how to identify and prove when shapes are congruent using the correct congruence rules</p> <p>Extended Task.</p>	<p>23/03/26 - (WK 2)</p> <p>Frayer Model Words</p> <p>Gradient</p>	<p>Homework</p> <p>Complete your weekly homework on <a href="https://spaxmaths.com/">https://spaxmaths.com/</a></p>
<p><b>In LP4.4, I will know:</b></p> <p>how to use different sampling methods and understand when each method is appropriate to collect fair and reliable data how to work with bearings, including measuring, drawing, and interpreting bearings using correct angles and directions how to use loci and construction techniques accurately with a compass and ruler to solve geometric problems</p>	<p>13/04/26 - (WK 1)</p> <p>Frayer Model Words</p> <p>Sample</p>	<p>Homework</p> <p>Complete your weekly homework on <a href="https://spaxmaths.com/">https://spaxmaths.com/</a></p>
<p><b>In LP4.5, I will know:</b></p> <p>how to revise effectively for my GCSE Maths exam</p>	<p>20/04/26 - (WK 2)</p> <p>Frayer Model Words</p> <p>Factorise</p>	<p>Homework</p> <p>Complete your weekly homework on <a href="https://spaxmaths.com/">https://spaxmaths.com/</a></p>
<p><b>In LP4.6, I will know:</b></p> <p>how to revise effectively for my GCSE Maths exam</p> <p>Extended Task.</p>	<p>27/04/26 - (WK 1)</p> <p>Frayer Model Words</p> <p>Evaluate</p>	<p>Homework</p> <p>Complete your weekly homework on <a href="https://spaxmaths.com/">https://spaxmaths.com/</a></p>
<p><b>In LP4.7, I will know:</b></p> <p>how to revise effectively for my GCSE Maths exam</p>	<p>04/05/26 - (WK 2)</p> <p>Frayer Model Words</p> <p>Show</p>	<p>Homework</p> <p>Complete your weekly homework on <a href="https://spaxmaths.com/">https://spaxmaths.com/</a></p>
<p><b>Resources to support learning:</b> Students will be given login details by their class teacher. Homework will be linked to clip numbers on this website. <a href="https://spaxmaths.com/">https://spaxmaths.com/</a></p>		
<p><b>FFET Award Challenge for this Learning Programme:</b> Complete 100% of SPARX maths homework every week.</p>		

PRT Task 1

PRT Task 2