

Learning Plan 4

YEAR: 11 SUBJECT: Maths (11Ma1)
BLWYDDYN: 11 PWNC: Mathemateg (11Ma1)

Knowledge focus: trigonometry, exam preparation



Skills, knowledge and understanding to be developed in this Learning Plan:

- Understand and use trigonometric relationships to calculate missing lengths, angles or areas in triangles
- Apply mathematical knowledge and understanding to exam style questions
- Develop effective exam techniques

Key terms to be learned in this LP:

Cosine, sine, tangent, evaluate, hence, factorise, solve, rational, irrational, in terms of

Week/Wythnos 1 Learning Intentions:

mock exam review and feedback

L.I. assessments:

Be able to:

Recall and use knowledge of mathematical content (AO1) Select and apply mathematical methods (AO2)

Interpret and analyse problems and generate strategies to solve them (AO3)



Homework/Gwaith cartref:

Mathswatch

Set: 23/2/26

Due: 2/3/26

Week/Wythnos 2 Learning Intentions:

- Use ICT to extend knowledge of trigonometry to angles of any size, using repeating patterns to determine values and sketch graphs of the trigonometric functions – sine curve, cosine curve and tan
- Draw and read values from trigonometric graphs
- Apply the general formula to calculate the area of non-right-angled triangles
- Use the sine rule to calculate angles in non-right-angled triangles
- Use the sine rule to calculate lengths of sides in non-right-angled triangles
- Use the cosine rule to calculate angles in non-right-angled triangles
- Use the cosine rule to calculate lengths of sides in non-right-angled triangles
- Use the sine and cosine rule to calculate angles and lengths in non-right-angled-triangles in two and three dimensions
- Solve equations where the unknown is the denominator



L.I. assessments:

Be able to:

Accurately apply the sine rule, cosine rule and rule for area of any triangle.

Recall and use trigonometric ratios (SOH CAH TOA) for right angled triangles.

Homework/Gwaith cartref:

Mathswatch

Set: 2/3/26

Due: 9/3/26

<p>Week/Wythnos 3 Learning Intentions:</p> <p>Numeracy Unit 2 – Nov 2025</p> <ul style="list-style-type: none"> Independently attempt the first half of the Unit 2 Numeracy paper Identify areas for improvement Read and respond to whole-class feedback on Numeracy Unit 2 Topic specific focus informed by areas requiring improvement in Numeracy Unit 2 	<p>L.I. assessments:</p> <p>Be able to:</p> <p>Recall and use knowledge of mathematical content (AO1) Select and apply mathematical methods (AO2)</p> <p>Interpret and analyse problems and generate strategies to solve them (AO3)</p>	<p>Homework/Gwaith cartref:</p> <p>Mathswatch</p> <p>Set: 9/3/26</p> <p>Due: 16/3/26</p>
<p>Week/Wythnos 4 Learning Intentions:</p> <p>Maths Unit 2 – Nov 2025</p> <ul style="list-style-type: none"> Independently attempt the first half of the Unit 2 Maths paper Identify areas for improvement Read and respond to whole-class feedback on Maths Unit 2 Topic specific focus informed by areas requiring improvement in Maths Unit 2 	<p>L.I. assessments:</p> <p>Be able to:</p> <p>Recall and use knowledge of mathematical content (AO1) Select and apply mathematical methods (AO2)</p> <p>Interpret and analyse problems and generate strategies to solve them (AO3)</p>	<p>Homework/Gwaith cartref:</p> <p>Mathswatch</p> <p>Set: 16/3/26</p> <p>Due: 23/3/26</p>
<p>Week/Wythnos 5 Learning Intentions:</p> <p>Numeracy Unit 1 – Nov 2025</p> <ul style="list-style-type: none"> Independently attempt the first half of the Unit 1 Numeracy paper Identify areas for improvement Read and respond to bespoke, individual feedback on Numeracy Unit 1 Topic specific focus informed by areas requiring improvement in Numeracy Unit 1 	<p>L.I. assessments:</p> <p>Be able to:</p> <p>Recall and use knowledge of mathematical content (AO1) Select and apply mathematical methods (AO2)</p> <p>Interpret and analyse problems and generate strategies to solve them (AO3)</p>	<p>Homework/Gwaith cartref:</p> <p>Mathswatch</p> <p>Set: 23/3/26</p> <p>Due: 14/4/26</p>