

Learning Plan 3

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

Knowledge focus:

Transformations, non-linear graphs



Skills, knowledge and understanding to be developed in this Learning Plan:	Key terms to be learned in this LP:
<ul style="list-style-type: none"> Recall and use knowledge of mathematical content Select and apply mathematical methods Interpret and analyse problems and generate strategies to solve them Calculate angles and angle sums in polygons Transform shapes on coordinate axes 	<p>Transform Translate Reflect Rotate</p> <p>Enlarge Similar Axis/Axes Origin</p>

Week/Wythnos 1 Learning Intentions: mock exams	L.I. assessments:	Homework/Gwaith cartref:
<ul style="list-style-type: none"> Consolidate and apply mathematical knowledge and understanding to Numeracy Unit 1 and Maths Unit 2 (Higher Tier) 	<p>Be able to:</p> <p>Recall and use knowledge of mathematical content (AO1)</p> <p>Select and apply mathematical methods (AO2)</p> <p>Interpret and analyse problems and generate strategies to solve them (AO3)</p>	<p>Mathswatch</p> <p>Set: 6/1/26</p> <p>Due: 12/1/26</p>

Week/Wythnos 2/3 Learning Intentions:	L.I. assessments:	Homework/Gwaith cartref:
<ul style="list-style-type: none"> Reflect shapes given the equation of a vertical, horizontal or diagonal line ($y = x$ or $y = -x$) Rotate shapes through a given angle and direction using a centre of rotation Enlarge shapes by a positive whole number or fractional scale factor (no centre of enlargement) Enlarge shapes using a centre of enlargement and a positive whole number scale factor on squared paper or a coordinate grid Enlarge shapes using a centre of enlargement and a positive fractional scale factor on squared paper or a coordinate grid Recognise and describe translations using column vectors Transform an object applying two successive transformations 	<p>Be able to:</p> <p>Complete, interpret and describe any transformation.</p>	<p>Mathswatch</p> <p>Set: 12/1/26</p> <p>Due: 19/1/26</p> <p>Set: 19/1/26</p> <p>Due: 26/1/26</p>

Week/Wythnos 4/5 Learning Intentions:	L.I. assessments:	Homework/Gwaith cartref:
<p>Recognise and sketch graphs of the form $y = ax^2 + b$.</p> <p>Draw quadratic graphs by completing a table of values ($y = ax^2 + b$ and $y = ax^2 + bx + c$)</p> <p>Interpret quadratic graphs</p> <p>Draw and interpret quadratic graphs when y is given implicitly in terms of x</p>	<p>Be able to:</p> <p>Draw and interpret non-linear graphs.</p>	<p>Mathswatch</p> <p>Set: 26/1/26</p> <p>Due: 2/2/26</p> <p>Set: 2/2/26</p> <p>Due: 9/2/26</p>

Week/Wythnos 6 Learning Intentions: mock exam review and feedback	L.I. assessments:	Homework/Gwaith cartref:
<ul style="list-style-type: none"> • Read and respond to feedback based on mock exams • Self-assess performance and identify areas for improvement • Take steps to begin making improvement in identified areas 	<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>Mathswatch</p> <p>Set: 9/2/26</p> <p>Due: 23/2/26</p>