

Learning Plan 3

YEAR: 11 SUBJECT: Maths (Foundation)

BLWYDDYN: 11 PWNC: Mathemateg

Knowledge focus:

Geometry – angles in polygons and transformations



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

- 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

Key terms to be learned in this LP:

- | | | | |
|-----------|----------------|----------------|---------|
| Acute | Obtuse | Reflex | Polygon |
| | Interior angle | Exterior angle | |
| Transform | Translate | Reflect | |
| Rotate | Enlarge | Symmetry | |

Week/Wythnos 1 Learning Intentions: mock exams

- Consolidate and apply mathematical knowledge and understanding to Numeracy Unit 1 and Maths Unit 2 (Higher Tier)



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: 6/1/26
Due: 12/1/26

Week/Wythnos 2/3 Learning Intentions:

- Identify regular and irregular polygons
- Investigate the angle facts for interior and exterior angles of polygons
- Calculate missing interior and exterior angles for regular or irregular polygons
- Use the angle at the centre of a regular polygon angle fact



L.I. assessments:

- Be able to:
- Calculate missing angles and angle sums in polygons

Homework/Gwaith cartref:

Mathswatch
Set: 12/1/26
Due: 19/1/26

Set: 19/1/26
Due: 26/1/26

Week/Wythnos 4/5 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 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 • Recognise and describe translations 	<p>Be able to:</p> <p>Enlarge, transform, reflect and rotate shapes on coordinate axes.</p>	<p>Mathswatch</p> <p>Set: 26/1/26</p> <p>Due: 2/2/26</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>