

## Learning Plan 2

YEAR: 11

SUBJECT: Maths (Higher)

BLWYDDYN: 11

PWNC: Mathemateg (Uwch)

Knowledge focus: number, algebra, geometry and statistics



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

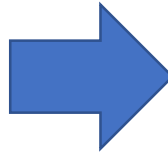
- Exam techniques
- Volume
- Surface area
- Angles in polygons
- Pythagoras' Theorem
- Transformations
- Loci and constructions

### Key terms to be learned in this LP:

Evaluate, solve, calculate, estimate, simplify, express, describe, explain, prove, construct

### Week/Wythnos 1 & 2 Learning Objectives: Revision and assessment

- Apply knowledge and skills (including calculator skills) to targeted revision tasks
- Completion of mock exams: one GCSE Maths paper and one GCSE Numeracy paper in exam conditions



Assessment:  
Mock exams

### Objective assessments:

Be able to:

Complete mock exams: one GCSE Maths paper and one GCSE Numeracy paper

### Homework/Gwait h cartref:

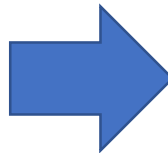
Revision for mock exams

Set:

Due:

### Week/Wythnos 3 & 4 Learning Objectives:

- Read and respond to bespoke teacher feedback on both mock papers
- Engage in whole-class mock exam review



### Objective assessments:

Be able to:

Make improvements to the GCSE Maths paper and GCSE Numeracy paper sat in the mock exams

### Homework/Gwait h cartref:

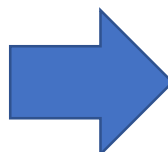
Set:

Due:

### Week/Wythnos 5 Learning Objectives:

#### Geometry revision as directed by class teacher, to include:

- Calculate the volume and surface area of spheres, hemispheres, cylinders, cones, pyramids
- Calculate angle totals and individual interior/exterior angles in polygons
- Recall and apply Pythagoras' Theorem in 2D and 3D
- Complete and describe combinations of transformations
- Complete constructions and solve loci problems by using a pair of compasses appropriately



### Objective assessments:

Be able to:

Answer GCSE questions on volume, surface area, angles, Pythagoras' Theorem, transformations and loci/constructions

### Homework/Gwait h cartref:

Set:

Due:

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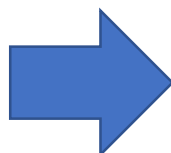
PWNC: Mathemateg (Uwch)

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### Week/Wythnos 6 Learning Objectives:

- Apply knowledge and skills (including calculator skills) to revision tasks
- Completion of a GCSE Numeracy Unit 1 paper
- Read and respond to bespoke teacher feedback on the GCSE Numeracy Unit 1 paper



Assessment:  
Numeracy  
Unit 1

### Objective assessments:

Be able to:

Complete a Unit 1 numeracy paper in exam conditions

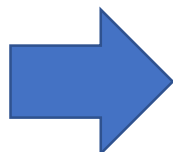
### Homework/Gwaith cartref:

Set:

Due:

### Week/Wythnos 7 Learning Objectives:

- Calculator specific revision as appropriate, using past exam papers and other suitable resources



### Objective assessments:

Be able to:

Answer Higher tier Maths and Numeracy GCSE questions

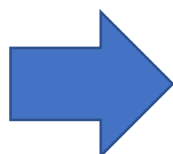
### Homework/Gwaith cartref:

Set:

Due:

### Week/Wythnos 8 Learning Objectives:

- Non-calculator specific revision as appropriate, using past exam papers and other suitable resources



### Objective assessments:

Be able to:

Answer Higher tier Maths and Numeracy GCSE questions

### Homework/Gwaith cartref:

Set:

Due:

### Week/Wythnos 9 Learning Objectives:

- Non-calculator specific revision as appropriate, using past exam papers and other suitable resources



### Objective assessments:

Be able to:

Answer Higher tier Maths and Numeracy GCSE questions

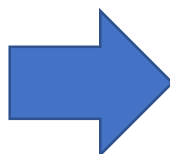
### Homework/Gwaith cartref:

Set:

Due:

### Week/Wythnos 10 Learning Objectives:

- Non-calculator specific revision as appropriate, using past exam papers and other suitable resources



### Objective assessments:

Be able to:

Answer Higher tier Maths and Numeracy GCSE questions

### Homework/Gwaith cartref:

Set:

Due: