

Learning Plan 1

YEAR: 11

SUBJECT: Maths (Foundation)

BLWYDDYN: 11

PWNC: Mathemateg (Sylfaenol)

Knowledge focus: number, algebra, geometry and statistics



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

- Percentages in context
- Fractions in context
- Proportional relationships
- Rounding, place value and decimals
- The four operations and BIDMAS
- Expressions
- Graphs
- Solving equations
- Angles
- Properties of shapes
- Averages
- Charts and diagrams
- Probability

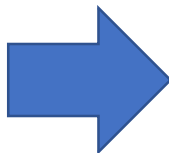
Key terms to be learned in this LP:

Evaluate, solve, calculate, estimate, simplify, express, describe, explain, prove, construct, draw, accurate, scale

Week/Wythnos 1 Learning Objectives:

Number revision as directed by class teacher, to include:

- Calculate percentages and fractions of amounts in a variety of contexts (e.g bills, interest)
- Calculate with fractions (four operations)
- Understand and use directed numbers
- Solve problems involving proportional relationships (e.g. ratio, direct proportion in context)
- Round numbers
- Apply BIDMAS and the four operations accurately
- Understand and use decimals (including in the context of money)
- Understand and use place value



Objective assessments:

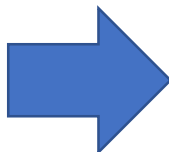
Be able to:
Answer GCSE questions on percentages, fractions and other proportional relationships, place value and the 4 operations

Homework/ Gwaith cartref:

Set:
Due:

Week/Wythnos 2 Learning Objectives:

- Apply knowledge and skills (including calculator skills) to revision tasks
- Completion of a GCSE Maths Unit 2 paper
- Read and respond to bespoke teacher feedback on the GCSE Maths Unit 2 paper



Assessment:
Maths Unit 2
paper

Objective assessments:

Be able to:
Complete a Unit 2 maths paper in exam conditions

Homework/ Gwaith cartref:

Set:
Due:

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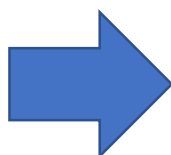
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Week/Wythnos 3 Learning Objectives:

Algebra revision as directed by class teacher, to include:

- Simplify expressions by multiplying/dividing expressions
- Substitute into expressions and formulae
- Solve linear equations
- Find and use the nth term of sequences
- Draw and interpret linear graphs
- Simplify expressions by collecting like terms
- Understand and use function machines
- Generate sequences with a term-to-term rule
- Interpret and plot coordinates



Objective assessments:

Be able to:

Answer GCSE questions on algebraic expressions, graphs, functions, equations and coordinates

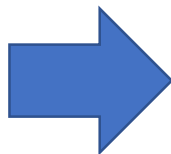
**Homework/
Gwaith cartref:**

Set:

Due:

Week/Wythnos 4 Learning Objectives:

- Apply knowledge and skills (including calculator skills) to a GCSE Numeracy Unit 2 paper, with targeted support and intervention from class teacher in lessons



Objective assessments:

Be able to:

Complete GCSE Numeracy Unit 2 questions

**Homework/
Gwaith cartref:**

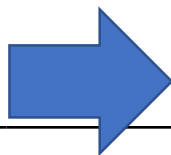
Set:

Due:

Week/Wythnos 5 Learning Objectives:

Geometry revision as directed by class teacher, to include:

- Recall and use angle properties in triangles, quadrilaterals, at a point/on a line and parallel lines
- Calculate/draw/measure bearings
- Measure and draw angles, and hence draw triangles
- Recall and apply properties of shapes, including symmetry and parts of a circle



Objective assessments:

Be able to:

Answer GCSE questions on angles and properties of shapes

**Homework/
Gwaith cartref:**

Set:

Due:

Week/Wythnos 6 Learning Objectives:

- Apply knowledge and (non-calculator) skills to a GCSE Maths Unit 1 paper, with targeted support and intervention from class teacher in lessons

Objective assessments:

Be able to:

Complete GCSE Maths Unit 1 questions

**Homework/
Gwaith cartref:**

Set:

Due:

Week/Wythnos 7 Learning Objectives:

Statistics revision as directed by class teacher, to include:

- Critique and write questionnaires
- Understand and use mutual exclusivity
- Plot and interpret diagrams/charts (scatter diagrams, pie charts, Venn diagrams, bar charts, pictograms)
- Calculate averages and the range
- List outcomes and complete sample space diagrams/two-way tables
- Calculate probabilities
- Understand and use the probability scale

Objective assessments:

Be able to:

Answer GCSE questions on averages, charts/diagrams and probability

**Homework/
Gwaith cartref:**

Set:

Due: