Learning Plan 1YEAR: 11SUBJECT: Maths (Higher)BLWYDDYN: 11PWNC: Mathemateg (Uwch)

Knowledge focus: number, algebra, geometry and statistics



 Skills, knowledge and understanding to be developed in this Learning Plan: Percentages in context Fractions in context Indices, standard form and surds Proportional relationships Algebraic fractions Graphs Solving equations and inequalities Circle theorems Trigonometry Averages Charts and diagrams 	Key terms to be learned in this LP: Evaluate, solve, calculate, estimate, simplify, express, describe, explain, prove, construct
Charts and diagramsProbability	

Week/Wythnos 1 Learning Objectives:		Objective assessments:	Homework/Gwaith cartref:
 Number revision as directed by class teacher, to include: Calculate with percentages in a variety of contexts (tax, bills, AER, compound interest) Calculate with fractions in a variety of contexts Recall and use index notation, standard form, index laws and surds Solve problems involving proportional relationships (e.g. ratio, direct proportion, inverse proportion, similarity) 		Be able to: Answer GCSE questions on percentages, fractions and other proportional relationships	Set: Due:
Week/Wythnos 2 Learning Objectives:		Objective assessments:	Homework/Gwaith cartref:
 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	Be able to: Complete a Unit 2 maths paper in exam conditions	Set: Due:
Week/Wythnos 3 Learning Objectives: <u>Algebra revision as directed by class teacher, to</u>		Objective assessments: Be able to:	Homework/Gwaith cartref:
 include: Simplify algebraic fractions Solve equations involving algebraic fractions Use the quadratic formula Draw and interpret linear/non-linear graphs Apply transformations of functions Convert recurring decimals to fractions Form and solve simultaneous equations Form and solve inequalities 		Answer GCSE questions on algebraic fractions, the quadratic formula, graphs, functions, equations and inequalities	Set: Due:

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 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: <u>Geometry revision as directed by class teacher, to include:</u> Know, recall and use circle theorems to calculate angles/lengths Use the three trigonometric ratios to find missing angles/lengths Calculate missing angles/lengths using the sine and cosine rules, and use the formula for area of a triangle using trigonometry Week/Wythnos 6 Learning Objectives: 	Objective assessments: Be able to: Answer GCSE questions on circle theorems and trigonometry Objective	Homework/Gwaith cartref: Set: Due: Homework/Gwaith
 Apply knowledge and (non-calculator) skills to a GCSE Maths Unit 1 paper, with targeted support and intervention from class teacher in lessons 	assessments: Be able to: Complete GCSE Maths Unit 1 questions	cartref: Set: Due:
 Week/Wythnos 7 Learning Objectives: Statistics revision as directed by class teacher, to include: Calculating, estimating and using averages Drawing and interpreting charts and diagrams (pie charts, cumulative frequency, box and whisker, histograms) 	Objective assessments: Be able to: Answer GCSE questions on averages, charts/diagrams and probability	Homework/Gwaith cartref: Set: