Learning Plan 1	Subject/Pwnc: Mathemateg	Year/Blwyddyn: 10 (B)					
The Four Purposes in Maths and Numeracy:							

Ambitious, capable learners who:

set themselves high standards; seek and enjoy challenge; are increasingly knowledgeable and skilful; are questioning; enjoy solving problems; can communicate effectively; can explain the ideas and concepts; can use number effectively; understand how to interpret data and apply mathematical concepts

Enterprising, creative contributors who:

connect and apply their knowledge and skills to create ideas; think creatively to reframe and solve problems; identify and grasp opportunities; take measured risks

Ethical, informed citizens

Healthy, confident individuals who:

face and overcome challenge; have the skills and knowledge to manage everyday life

Knowledge focus/what matters:

Rounding and estimating, indices, equivalence, fractions and percentages:

The number system is used to represent and compare relationships between numbers and quantities.

Equations, inequalities and formulae:

Algebra uses symbol systems to express the structure of mathematical relationships.

Learning objective/key question	What will I know and be able to do? I can	How will I develop my skills? (Success Criteria)	Homework/Gwaith cartref to support progress					
Weeks 1-2: Rounding and estimating	 Round whole numbers to the nearest 10, 100, 1000, etc; to the nearest whole number; to a given number of decimal places Round numbers to a given number of significant figures Estimate solutions to numerical calculations by approximating the numbers in the calculations 	I have a thorough understanding of rounding and estimation, that I can apply to strategically solve problems in different contexts. I can develop appropriate methods for estimation, by applying my prior knowledge and understanding. I can answer questions by summarising my findings or ideas, and I can evaluate answers, finding ways to improve upon them. I can produce accurate and concise verbal and written responses or justifications, explaining my reasoning clearly.	Wk 2	Mathswatch homework Set: 12/9/25 Due: 19/9/25				
Assessment at the end of week 2								
Week 3-4: What are indices?	 Recall and use the terms square, square root, cube and cube root. Express numbers as the product of their prime factors in index form 	I have a detailed understanding of indices and their laws. I can apply my prior knowledge and understanding (of positive integer indices) to investigate index laws, and use this to form my own ideas and methods.	Wk 3	Mathswatch homework Set: 19/9/25 Due: 26/9/25				



	•	Use prime factor decomposition to help	I can evaluate mathematical information to identify the problem, and				
		solve other numerical problems, including	independently generate, and justify, a clear and concise solution.				
		links to square numbers					
	•	Use index notation and the rules of indices	I evaluate my learning, mistakes and misconceptions, identifying areas for				
		to perform calculations with numbers	development.				
		written in index form for positive integral					
		indices	I am curious and inquisitive about mathematical concepts.				
Weeks 3-4:	•	Recall equivalences between fractions,	I understand the concepts of equivalence, fractions and percentages.	Wk 4	Mathswatch homework		
		decimals and percentages					
Find and use	•	Convert numbers from one form into	I can recall and apply relevant prior knowledge and use it to develop new ideas and		Set: 26/9/25		
equivalences		another	methods.				
•	•	Order and compare whole numbers,			Due: 3/10/25		
RDR		decimals, fractions and percentages	I can evaluate information, evidence and situations to identify the problem, and		11 1, 1,		
	_	Recall that recurring decimals are exact	independently generate, and justify, a clear and concise solution.				
		fractions, and that some exact fractions are	, , , , , , , , , , , , , , , , , , , ,				
		recurring decimals	I can evaluate answers, finding ways to improve upon them.				
Weeks 5-8:	•	Find equivalent fractions		Wk 5	Mathswatch homework		
Understand and		·	I can communicate effectively and concisely, using both mathematical notation and	VVKJ	Mathswatch Homework		
use fractions and		Simplify fractions	written English accurately.		Set: 3/10/25		
	•	Express one number as a fraction or			3et. 3/10/23		
percentages		percentage of another	I can recall and make links to my own experience of percentages and fractions in		Due: 10/10/25		
RDR	•	Find a fraction or percentage of a quantity	other contexts, using these links to make sense of new knowledge in mathematical	Wk 6	Mathswatch homework		
אטא			contexts.	VVK O	Mathswatch homework		
			Contexts		C-1-10/10/25		
					Set: 10/10/25		
					Duoi 17/10/25		
Weeks 5-8:			I have a thorough understanding of equations, formulae and inequalities, that I can	Wk 7	Due: 17/10/25 Mathswatch homework		
weeks 5-8:	•	Recognise the definitions of the terms		VVK /			
147 11 11		equation, expression, inequality and	apply in different contexts.		Set: 17/10/25		
Working with		formula and be able to distinguish between			D 24/40/25		
equations,		them.	I can independently generate ideas, explanations and solutions.		Due: 24/10/25		
expressions,	•	Understand and use number operations					
inequalities and		and the relationships between them	I can choose appropriate methods to check the accuracy of my own solutions and				
formulae		(inverse operations and the hierarchy of	improve upon them.				
		operations)					
EDU/AMA	•	Form, manipulate and solve linear and	I can use and explain the vocabulary of algebra.	Wk 8	Mathswatch homework		
		other simple equations with whole number			Set: 24/10/25		
		and fractional coefficients	I can communicate effectively using symbols and/or appropriate algebraic notation.				
	•	Form, manipulate and solve simple linear			Due: 7/11/25		
		inequalities with whole number and	I can make links and connections with my prior knowledge (of expressions,				
		fractional coefficients	equations and inverse operations) and use these to develop methods for solving				
	•	Change the subject of a formula when the	more complex equations and inequalities.				
		subject appears in one term					
Assessment at the end of week 8							