Learning Plan 3	Subject/Pwnc: Mathemateg	Year/Blwyddyn: 7

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

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Knowledge focus/what matters:

Addition, subtraction and multiplication:
The number system *is used to represent and compare relationships between numbers and quantities.*

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 1-3: Understand and use addition and subtraction	• add any numbers, including decimals, using column headings • use different strategies to help myself when adding numbers in my head • subtract any two numbers with pen and paper, including decimals, using column headings • subtract tens first then units when subtracting numbers in my head • continue a sequence when the rule is adding or subtracting and write down the term-to-term rule • add on' instead when subtracting two numbers in my head • find the perimeter of a shape	Understanding: I can explain the ideas behind the methods I choose and why they work. I can use models or digital tools to explore number relationships. Communicating & Skills: I can set out my working clearly using correct notation. I can explain my steps in a way others can follow. Fluency: I can choose and use efficient methods accurately, whether mental or written. I can recall useful number facts and strategies without hesitation. Reasoning: I can check whether answers make sense using estimation or logic. I can explain why a method is appropriate for a particular problem. Problem Solving: I can represent real situations using diagrams, equations, or number lines. I can try alternative strategies when my first approach isn't effective.	Wk 1 Wk 3	Mathswatch homework Set: Due: Mathswatch homework Set: Due:

	• solve problems by applying what I know about addition and subtraction			
	SYL: Understand and use addition and subtraction	I can apply my understanding of addition/subtraction to solve problems in real-world contexts I can give reasons for my answers and explain my thinking clearly I can apply my understanding of addition and/or subtraction to accurately calculate, showing my working out in a clear, mathematically correct format		
Week 4-6: Understand and use multiplication	• double integers • multiply any number by 10, using place value columns if I need to • use what I already know to multiply numbers • use a written method to multiply numbers • use multiplication to find the area of a square and a rectangle • use multiplication to find the area of a triangle • recall and understand what commutative means • recognise and use factors and multiples	Understanding: I can explain how multiplication connects to ideas like scaling, grouping, and area. I can use patterns and structure to understand how numbers behave. Communicating & Skills: I can organise written methods clearly and use correct mathematical language. I can use diagrams or digital tools to support my explanations. Fluency: I can apply multiplication facts and methods accurately and efficiently. I can use place-value knowledge to work confidently with larger or more complex numbers. Reasoning: I can justify my methods and explain why an answer is reasonable. I can use known facts to work out unfamiliar calculations logically. Problem Solving: I can model situations using multiplication in different forms (arrays, diagrams, equations). I can connect multiplication ideas to other areas of maths when solving problems.	Wk 5 Wk 7	Mathswatch homework Set: Due: Mathswatch homework Set: Due:
	Assessment: Understand and use addition, subtraction and multiplication	I can apply my understanding of addition, subtraction and multiplication to solve problems in real-world contexts I can give reasons for my answers and explain my thinking clearly I can apply my understanding of addition, subtraction and multiplication to accurately calculate, showing my working out in a clear, mathematically correct format		