


Learning Plan 5		Subject/Pwnc: Mathemateg	Year/Blwyddyn: 7
<p><u>The Four Purposes in Maths and Numeracy:</u></p> <p>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</p> <p>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</p> <p>Ethical, informed citizens</p> <p>Healthy, confident individuals who: face and overcome challenge; have the skills and knowledge to manage everyday life</p>			
<p>Knowledge focus/what matters:</p> <p>Order of operations; fractions: <i>The number system is used to represent and compare relationships between numbers and quantities.</i></p>			
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
<p>Week 1:</p> <p>Why is the order of operations important?</p>	<p>Recall and apply BIDMAS in different contexts</p> <p>Understand that the order of operations always applies, including in areas of maths such as algebra</p> <p>Solve problems using BIDMAS</p>	<p>Understanding: I can recall and use the correct order to apply addition, subtraction, multiplication, division and indices</p> <p>Communication: I can set out my working in a mathematically correct way, when there is more than one operation involved</p> <p>Fluency: I can apply my understanding to calculate accurately, showing my working out in a clear, mathematically correct format</p> <p>Reasoning: I can give reasons for my answers and explain my thinking clearly</p>	<p>Wk 1-2</p> <p>Mathswatch homework</p> <p>Set:</p> <p>Due:</p>

<p>Weeks 2 – 6:</p> <p>What are fractions?</p>	<p>Explain what a fraction is.</p> <p>Represent fractions diagrammatically.</p> <p>Find equivalent fractions</p> <p>Simplify fractions using common factors.</p> <p>Recall the equivalences between key fractions, decimals and percentages.</p> <p>Convert numbers from one form into another.</p> <p>Order and compare whole numbers, decimals, fractions and percentages.</p> <p>Simplify fractions.</p> <p>Express one number as a fraction of another.</p> <p>Find a fraction of a quantity.</p> <p>Calculate fractional changes (increase and decrease).</p> <p>Add, subtract, multiply and divide any combination of integers, proper fractions, improper fractions and mixed numbers.</p> <p>Carry out calculations involving knowledge of money; pounds (£) and pence.</p>	<p>Understanding: I can explain what a fraction is, and that fractions provide different ways of representing non-integer quantities I understand that a simplified fraction is equivalent to the original fraction; fraction, decimal and percentage equivalence</p> <p>Communicating: I can communicate mathematically, using fractions and/or mixed numbers. I can represent fractions using a variety of diagrams I can use inequality notation to compare fractions</p> <p>Fluency: I can calculate with fractions in mathematical and real-world contexts</p> <p>Reasoning: I can justify my methods and explain why an answer is reasonable I can reason mathematically, using equivalent fractions and/or FDP equivalences to compare non-integer values</p> <p>Problem Solving: I can model situations using fractions I can strategically solve problems by using the four operations with any combination of integers, proper fractions, improper fractions and mixed numbers in a variety of contexts</p>	<p>Wk 3-4</p>	<p>Mathswatch homework</p> <p>Set:</p> <p>Due:</p>
<p>Week 3</p> <p>SYL: Understand, explain and show what a fraction is.</p>		<p>Understanding: I can explain what a fraction is I understand that a simplified fraction is equivalent to the original fraction</p> <p>Communicating: I can communicate mathematically, using fractions and/or mixed numbers. I can represent fractions using a variety of diagrams</p> <p>Problem Solving: I can model situations using fractions</p>	<p>Wk 5-6:</p>	<p>Mathswatch homework</p> <p>Set:</p> <p>Due:</p>