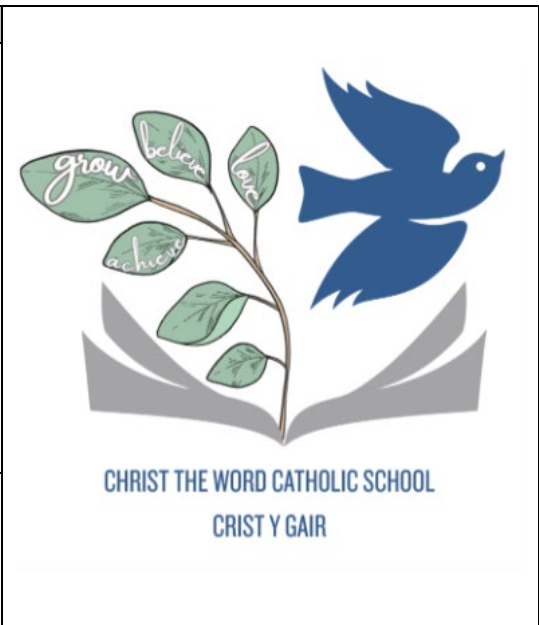


Learning Plan 4	Subject/Pwnc: Mathemateg	Year/Blwyddyn: 8
<p><u>The Four Purposes in Maths and Numeracy:</u></p> <p>Ambitious, capable learners who: set themselves high standards; seek and enjoy challenge; are increasingly knowledgeable and skilful; are questioning; enjoy solving problems; can communicate 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>Area and perimeter: <i>Geometry focuses on relationships involving shape, space and position, and measurement focuses on quantifying phenomena in the physical world.</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 1-3:</p> <p>How can we compare the size of shapes?</p>	<ul style="list-style-type: none"> Estimate of the area of an irregular shape drawn on a square grid Calculate the perimeter of a square, rectangle, triangle, parallelogram, trapezium, circle, semicircle and a composite shape Calculate the area of a square, rectangle, triangle, parallelogram, trapezium, circle, semicircle and a composite shape 	<p>Understanding: I can explain and justify mathematical thinking with clarity; I can choose the most effective representation for a concept; I can apply my knowledge flexibly across topics and problem types.</p> <p>Communicating and skills: I can choose the best symbols to represent ideas, patterns, or relationships; I can use symbols to describe different types of problems and situations.</p> <p>Fluency: I can apply my knowledge to new and more challenging situations; I'm becoming more skilled and accurate as I practise and learn more.</p> <p>Logical reasoning: I can move from explaining with words or pictures to using symbols and formal methods; I can explain why my solution works in a clear and structured way.</p> <p>Problem solving: I can use maths skills I've learned in new or unfamiliar situations; I can explain how maths helps us understand and solve real-world problems.</p>	<p>Wk 1-2</p>	<p>Mathswatch homework</p> <p>Set:</p> <p>Due:</p>

<p>Week 4: Assessment and feedback</p>	<p>Assessment: Understand and use...</p> <ul style="list-style-type: none"> • mathematical equipment, • properties of 2D shapes, • maps, • graphs and compound measures, • area and perimeter. 	<p>Understanding: I can explain the ideas behind constructions, shape properties, scales, compound measures, and size comparisons. I can describe how representations connect and why methods work. I understand the relationships between angles, shapes, distances, graphs, and measurements.</p> <p>Communicating and skills: I can use accurate diagrams, notation, and geometric language. I choose appropriate tools (protractors, rulers, etc) to represent shapes, scales, measures, and graphs clearly. I can communicate mathematical information in an organised and precise way.</p> <p>Fluency: I can carry out accurate constructions, measurements, and calculations. I confidently use shape properties, scales, map features, speed and other compound measures, and methods for area and perimeter. I apply known facts efficiently in new or mixed-topic questions.</p> <p>Reasoning: I can justify each method or construction, explaining why it works. I can check whether measurements, graphs, scales, or shape classifications make sense. I use logical, structured arguments to show how I know an answer is correct or reasonable.</p> <p>Problem Solving: I can apply my skills to unfamiliar situations involving shapes, constructions, scales, compound measures, and area or perimeter. I can select useful strategies, work independently through multi-step problems, and explain how my approach models or solves real-world contexts.</p>	<p>Wk 3-4</p>	<p>Mathswatch homework</p> <p>Set:</p> <p>Due:</p>
<p>Week 5: How can I use area and perimeter in the real-world?</p>	<ul style="list-style-type: none"> • Form a plan to solve a problem in a real context • Decide what information I need to gather, and how to research it • Accurately apply my knowledge and understanding of perimeter and area • Clearly explain, show and justify my choices, including the mathematical calculations that back them up • Consolidate and apply my knowledge and understanding of perimeter and area, real life graphs, maps, shapes and angles 	<p>Understanding: I can apply my knowledge flexibly across topics and problem types.</p> <p>Logical reasoning: I can use logical reasoning to solve unfamiliar problems. I can explain why my solution works in a clear and structured way.</p> <p>Problem solving: I can use maths skills I've learned in new or unfamiliar situations. I can explain how maths helps us understand and solve real-world problems.</p>	<p>Wk 5</p>	<p>Mathswatch homework</p> <p>Set:</p> <p>Due:</p>