


Learning Plan	Subject: Mathemateg/Mathematics	Year: 7	 <p>Ysgol Uwchradd Prestatyn High School</p>
<p>Knowledge focus/What matters:</p> <p>The number system is used to represent and compare relationships between numbers and quantities:</p> <ul style="list-style-type: none"> • Place value and multiplying/dividing by 10/100 etc / writing big numbers • Number bonds to 10, 20, 100 • ‘Jumping over’ 10s • Addition and subtraction of whole numbers and decimals (inc money) mental/written • Adding lists of numbers - different methods/estimating mental/written <p>Algebra uses symbol system to express the structures of relationships between numbers, quantities and relations:</p> <ul style="list-style-type: none"> • Commutativity with addition • Linear graphs <p>Geometry focuses on relationships involving properties of shape, space and position:</p> <ul style="list-style-type: none"> • Perimeter of shapes 		<p>4 Purposes: <i>Ambitious Capable Learners, Enterprising Creative, Contributors, Ethical Informed Citizens, Healthy Confident Individuals</i></p> <p>Our Vision: <i>At Prestatyn High School, we are creating learners who:</i></p> <p>ASPIRE to great things;</p> <p>Have a desire to CREATE and be enterprising;</p> <p>Are inspired to LEARN new and interesting things;</p> <p>THINK for themselves and make good choices;</p> <p>Are encouraged to GROW in confidence, health and understanding;</p> <p>ACHIEVE goals which will set them up for their whole lives;</p> <p>ENJOY learning, now and through the rest of their lives.</p>	

Learning Objective/Big Question	Learning activities	I can...	Skills	Homework
<p>Weeks 1, 2 and 3: Develop, secure and apply understanding of place value</p>	<ul style="list-style-type: none"> • Develop and secure understanding of place value for positive integers • Use place value for non-integers • Read, write and interpret numbers • Multiply and divide by 10, 100, 1000 • Weeks 1, 2 and 3 Numeracy questions 	<ul style="list-style-type: none"> → write a number in words if I’m given it in numerical form. → write a number using digits if I’m given it in words. → divide any number by (10, 100, 1000 or more) by moving the digits (one/two/three...) columns smaller. → divide any number by 10, 100, 1000 or more by moving all the digits in my head. → round numbers to the nearest 10, 100, 1000 etc. → write down smallest and greatest values of a number, using the rules of rounding. → write a number in standard form. → write a number in standard form as a normal number. → round numbers to significant figures. → find the bounds of numbers. 	<p><i>Numeracy</i> <i>Team work</i> <i>Digital competency</i> <i>Literacy</i> <i>Problem solving</i></p>	<p>Weekly homework to be set on mymaths or mathswatch by class teacher on place value</p>

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Mid-term formative feedback point				
Weeks 4 & 5: Develop, secure and apply an understanding of number bonds	<ul style="list-style-type: none"> • Develop and secure understanding of number bonds for positive and negative integers and non-integers • Discuss and use efficient and accurate methods when applying addition to integers and decimals • Draw and interpret linear graphs. • 'Jumping Over' 10's • Week 4 & 5 Numeracy questions • Extension: plotting $x+y=10$ • Odds and Evens activity • 24 investigation (including plotting $x+y=24$) 	<ul style="list-style-type: none"> → recall all the number bonds to 10 using positive integers. → work out the number bonds to 10 using positive and negative integers. → work out the number bonds to 10 using any numbers, including decimals and fractions. → recall or work out the number bonds to 100. → 'jump over 10s' when adding two numbers to make it quicker. 	<i>Numeracy</i> <i>Team work</i> <i>Digital competency</i> <i>Literacy</i> <i>Problem solving</i>	Weekly homework to be set on mymaths or mathswatch by class teacher on number bonds.
Weeks 6, 7 & 8: Understand and use efficient, accurate methods of addition and subtraction	<ul style="list-style-type: none"> • Discuss and use efficient and accurate methods when applying addition and subtraction to integers and decimals: different methods/estimating/mental/written methods • add and subtract amounts of money • Verify calculations about number by inverse reasoning and approximation methods • Explore commutativity with addition and recognise when two different numerical expressions describe the same situation. • Explore perimeter of shapes • Weeks 5, 6 and 7 Numeracy questions • Consecutive Numbers enrichment activity • Think of a Number enrichment activity 	<ul style="list-style-type: none"> → set out the numbers with column headings when adding whole numbers with pen and paper. → add any numbers, including decimals, using column headings. → use different strategies to help myself when adding numbers in my head eg number bonds, adding the tens first etc. → set out the numbers with column headings when subtracting whole numbers with pen and paper. → 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. → find the perimeter of a shape when some of the sides are not given. 	<i>Numeracy</i> <i>Team work</i> <i>Digital competency</i> <i>Literacy</i> <i>Problem solving</i>	Weekly homework to be set on mymaths or mathswatch by class teacher on addition and subtraction.

If you have any issues accessing/completing your maths homework, please contact your maths teacher as soon as possible (through Teams, email or mathswatch, or speak to them in person)