Links to prior learning/ objectives: Place value of 3 digit numbers Ordering and comparing numbers to 1000 Roman numerals to 12 Formal addition and subtraction with 3 digit numbers Using the inverse with 3 digit number calculations Finding the perimeter of basic shapes	Autumn 1 Year 4Resources:Number cards, digits, place value counters, placevalue grids, blank number lines, 2D shapes,rulers, coinsMastery:(where to find some resources)• Teaching for Mastery• White Rose New and old documents• Mastery maths stickers• Nrich (curriculum mapping)	L.E.A.D. Academy Trust Lead • Empower • Achieve • Drive Digit, number, thousand, hundred, tens, ones, place value, more, less, greater than, less than, next, consecutive, integer, negative, positive, count through zero, above/below zero, estimate, represent, order, compare, round, nearest, multiple, inverse, exchange, regroup, column perimeter, measure, length, width, centimetres, metres, coins, pounds, pence, total,				
Objectives and Teaching						
<u>Week 1</u> <u>Barriers to ARE (misconceptions):</u> Understanding of 3 digit numbers and their place value, counting on and back from any number, knowledge of multiples of 10	 Find 1000 more or less than a given number To develop the skill of counting in 1000s from any given number To develop the skill of finding 1000 more or less than a given number Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) To understand the value of each digit in a four-digit number To develop the skill of partitioning numbers according to place value. 					
Fluency How many sweets are there altogether?	Problem Solving Complete the missing boxes:	Reasoning Sort these statements into sometimes, always, never. • When counting in hundreds, the ones digit changes. • The thousands column changes every time you count in thousands. • To count in thousands, we use 4 digit numbers.				



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Complete the sentences. There are thousands, tens and ones. The number istens Complete the part-whole model for the number represented.	10 less than my number is 1000 more than 5300. What is my number? Can you write your own problem similar to this? Fill in the boxes by finding the patterns: 3,210 1,210 3,110 6,010	True or false? Sophie If I count in thousands from zero I will always have an even answer.	Lead • Empower • Achieve • Drive
What is the value of the underlined digit in each number? 6 ,9 <u>8</u> 3 9 ,021 7 89 6 ,57 <u>0</u>	Use the clues to find the missing digits.		
Week 2 Barriers to ARE (misconceptions): Understanding of 3 digit numbers and their place value, counting on and back from any number, knowledge of multiples of 10	 Identify, represent and estimate numbers using different representations. To know how to identify numbers in different representations To know how to represent numbers in different representations To know how to estimate numbers in different representations Order and compare numbers beyond 1000 To know how to order numbers beyond 1000 To know how to compare numbers beyond 1000 To know how to compare numbers beyond 1000 		



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<u>Week 5</u> <u>Barriers to ARE (misconceptions):</u>	 Add and subtract numbers with up to 4 digits using the formal written methods of columnar. Drive addition and subtraction where appropriate To develop the skill of adding 1s, 10s, 100s and 1000s. To add numbers with up to 4 digits using column addition. (this will need more than one lesson) To subtract numbers with up to 4 digits using column subtraction. (this will need more than one lesson) To develop the skill of using the most efficient methods to calculate 4-digit numbers. Estimate and use inverse operations to check answers to a calculation. To know how to use the inverse to check my answers 		
Fluency Add the place value counters together. 	<text><text><text><text><text><image/><image/><text></text></text></text></text></text></text>	Personal provides the following calculation:2,24 + 3421,24 + 342When I added 1,234 and 345together I got 1,589.EleanorSuriI added 1,234 to 345 and I got 4,684.Both of the children have made a nistake in their calculations.Calculate the actual answer to the question.What mistakes did they make?	

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Here is a number.	Autumn 1 Year 4	L.E.A.D. Academy Trust Lead • Empower • Achieve • Drive Find the missing numbers that could go into the boxes. Give reasons for your answers. $-1, 345 = 4$ 6 What is the greatest number which could go in the first box? What is the smallest? How many possible answers could you have? What is the pattern between the numbers?
Find the difference between 6,528 and 469 using column subtraction. Week 6 Barriers to ARE (misconceptions):	Which operation do you use? Measure and calculate the perimeter of a rectiline and meters • To understand what perimeter is • To know how to find the perimeter of a sha • To know how to measure perimeter in cm • To know how to calculate perimeter of a re	ar figure (including squares) in centimeters ape on a grid and m ectangle
Fluency Work out the perimeter of the shape. Can you draw a different shape with : a) the same perimeter b) a perimeter which is 5cm longer c) a perimeter which is double/half the length of this one.	Problem Solving Which of these shapes has the longest perimeter? Explore other letters which could be drawn as rectilinear shapes. Put them in order of shortest to longest perimeter. Can you make a word?	Reasoning Always, sometimes, never. When all the sides of a rectangle are odd numbers, the perimeter is even. Prove it.







