	Autumn 1 Year 3	
 Links to prior learning/ objectives: Number bonds Addition and subtraction One more/ one less 	Resources: base 10, place value counters, cubes, number lines, digit cards, rulers, scales, measuring cylinders and jugs, 2D shapes Mastery: (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, hundred, tens, ones, compare, order, greater than, less than, number line, in between, more, less, estimate, calculate, inverse, relationship, more/less, hundreds boundary Measure, length, weight, mass, capacity, millimetres, centimetres, metres, grams, kilograms, litres, millilitres, approximately Perimeter, distance, shape, 2D
	Objectives and Teaching	
Week 1 Barriers to ARE (misconceptions): Recognising numbers, understanding the value of each digit, understanding language of greater than and less than, comparisons of numbers to represent on a number line	 Recognise the place value of each digit in a three-digit number (hundreds, tens, ones) To know how to recognise hundreds, tens and ones in a number To understand the value of each digit in a 3 digit number Compare and order numbers up to 1000. To know how to compare numbers using symbols To know how to order numbers using knowledge of place value 	
Fluency	Problem Solving	Reasoning
There are 100 sweets in each jar.How many sweets are there altogether?SweetsSweetsJooJ	David has 420 in Base 10 but some are covered.	If I count in 100s from zero, all of the numbers will be even. Convince me.
	How many different ways can you make 420 with Base 10?	

<u>Autumn 1 Year 3</u>	L.E.A.D. Academy Trus Lead • Empower • Achieve • Driv Sort these statements into always, sometimes or never.
	 The hundreds column changes every time you count in hundreds. To count in hundreds we use 3 digit numbers.
 Read and write numbers up to 1000 in numeration. To know how to read numerals to 1000 To know how to write numerals to 1000 To know how to read words to 1000 To know how to write words to 1000 Identify, represent and estimate numbers usine To know how show and estimate a number To know how to show numbers in a variet 	als and in words. ng different representations. er on a number line y of ways
Problem Solving If the number on the line is 780, what could the start and end numbers be? Find three different ways and explain your reasoning.	Reasoning Place seven hundred and twenty five on each of the number lines below.
	Autumn 1 Year 3 Read and write numbers up to 1000 in numeral • To know how to read numerals to 1000 • To know how to read numerals to 1000 • To know how to write numerals to 1000 • To know how to write numerals to 1000 • To know how to read words to 1000 • To know how to write words to 1000 Identify, represent and estimate numbers usin • To know how to show and estimate a number • To know how to show numbers in a variet Problem Solving If the number on the line is 780, what could the start and end numbers be? Find three different ways and explain your reasoning.

	Autumn 1 Year 3		
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<u>Week 3</u> <u>Barriers to ARE (misconceptions):</u> Place value of numbers Counting on and back from a number Understanding of key vocabulary- estimate, inverse Visual representation and understanding of the inverse	 Find 10 or 100 more or less than a given number. To know how to recognise the digits that change when adding or subtracting 10 or 100. To know how to find 10/ 100/ more/ less than a given number To know how to find 10/ 100 more and less when bridging the tens/ hundreds barriers Add and subtract numbers mentally, including: ~ a three-digit number and ones, ~ a three-digit number and tens, ~ a three-digit number and hundreds. 		
Fluency	Problem Solving	Reasoning	
<image/> <image/> <image/> <image/> <text><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></text>	I think of a number and add 10, subtract 100 and subtract 1 My answer is 256 What number did I start with? What can you do to check? 10 more than my number is the same as 100 less than 320 What is my number? Explain how you know. Write your own problem similar to describe the original number.		





Barriers to ARE (misconceptions): Using equipment correctly, development of addition and subtraction skills Understanding of key language (perimeter) Recognition of 2D shapes	 To understand what perimeter is To know how to measure perimeter To know how to calculate perimeter Measure, compare, add and subtract: lengths (To know how to measure the mass of object To know how to compare mass. To know how to add and subtract mass. 	L.E.A.D. Academy Trust Lead • Empower • Achieve • Drive [m/cm/mm); <mark>mass (kg/g);</mark> volume/ capacity (l/ml) cts
Fluency Using your finger, show me the perimeter of the table, your book, your whiteboard etc. Tick the images where you can find the perimeter. Image: Ima	<text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text>	Reasoning Aron is measuring the shape below. He says the perimeter is 7 cm Image: Comparison of the state is the same is the say of the same is the same is the same is the same is the says she only needs to measure one side of the square. Do you agree? Explain your answer.

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		Three children are weighing potatoes and flour.
		The potatoes weigh more because the arrow is further than the arrow on the flour scale.
		The flour weighs less because 2 is less than 700 Brahma The flour weighs more
		Raegan 700 g
		Who do you agree with? Explain your answer.
Week 7	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/ capacity (l/ml)	
Barriers to ARE (misconceptions):		
Using equipment correctly, development of	• To know how to measure the capacity of objects	
addition and subtraction skills	• To know how to compare capacity	
Understanding of key language (perimeter)	• To know how to add and subtract capacity.	
Recognition of 2D shapes		
Fluency	Problem Solving	Reasonin g



