Spring 1 Year 2		LEAD Acadomy Trust
Links to prior learning/ objectives	Resources	Vocabulary: Lead • Empower • Achieve • Drive Standard units, unit, measure.
 read and recognise and write numbers to 20 and know numbers to 100. Counting in multiples of 2, 5 and 10. Multiplication facts with 2s, 5s ad 10s. Recognising odd and even numbers. Addition and subtraction skills- base ten, tens frames, number lines, physical objects. Word problems linked to addition and subtraction. Awareness of greater than, less than and equal to symbols. Recognition of coins and understanding of their value. Basic understanding of mass, length, capacity, temperature. 	base 10, number lines, counting objects/ forming them into arrays, bead strings, tens frames, two-sided counters, Part-Part-Whole diagrams/ bar models. Money, measuring equipment (scales, rulers, tape measure, measuring jugs). Mastery: (where to find some resources) • Teaching for Mastery • White Rose New and old documents • Mastery maths stickers • Nrich (curriculum mapping)	metres, centimetres, millimetres, litres, millilitres, kilograms, grams, degrees, Greater than, less than, equal to, more, less, fewer. Compare, order, length, mass, volume, capacity. Addition, subtraction, add, subtract, units of measure, problems, interpret, number sentence, calculate, altogether, total, more, less, difference. Pounds, pence, money, total, altogether, change, left, add, subtract, addition, subtraction, combine, equal,
		different.
Objec	tives and Teaching	
Week 1 Barriers to ARE (misconceptions) Recognising the relationship between given units of measure. Confusion between which unit of measure is greater/smaller. Difficulties with reading a scale on measuring.	 Choose and use appropriate standard use appropriate standard use length/height in any direction (m/cm); if (litres/ml) to the nearest appropriate use and measuring vessels To understand the most appropriate measure length /height in any d To understand the most appropriate measure mass (k/ kg) To understand the most appropriate measure temperature (degrees To understand the most appropriate measure capacity in litres/ml) 	nits to estimate and measure mass (kg/g); temperature (°C); capacity nit, using rulers, scales, thermometers riate standard unit to estimate and irection (m/cm) riate standard unit to estimate and c) riate standard unit to estimate and
Fluency	Problem Solving	Reasoning

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		LEAD Academy Tru
 Fill in the boxes using <, > 12m 17m Table length Chair height 3kg 7kg Order the lengths below from shortest to longest: 12cm, 25cm, 20cm, 15cm Weigh the items below, write a number sentence showing which is heavier using < or >. 	 Four students measured their heights. Lucy was taller than Katie, but not as tall as Tim. Gary was taller than Tim. Write down their names in order of their heights, from shortest to tallest. Hannah is weighing three bags. Hannah is weighing three bags. The green bag is heavier than the pink bag. The orange bag is lighter than the pink bag. Order the bags from heaviest to lightest. If the pink bag weighs 7kg, what could the other bags weigh? 	 True or False? r • Achieve • Dr 24cm < 36cm 45cm > 46cm 31m > 30m Explain your reasoning. Helen says 'I think the bigger something is, the heavier it is' Do you agree? Use objects in your classroom to prove your answer. How long is the pen? How much shorter is the pencil? Show me.
Week 3 Barriers to ARE (misconceptions) Children might not understand the relationship between addition and subtraction. Children might not know an efficient strategy (both metal and written) for addition and subtraction. Children might not understand the importance of place value whilst adding and subtracting multi-digit numbers. Children might not know the vocabulary associated with addition and subtraction.	 Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures To know how to solve problems using addition using concrete resources To know how to solve problems using subtraction using concrete resources To know how to solve problems using addition using pictorial representations To know how to solve problems using subtraction using pictorial representations To know how to solve problems using subtraction using pictorial representations 	
Fluency	Problem Solving	Reasoning



I am working

out 74 - 56

• Drive

Sam and Zoe are working out

some subtractions.

•

Spring 1 Year 2 The length of the school hall is 21 metres. Tilly runs from one end to the other and then back again. How far has she run? There are 32 children in Class 2. 17 are girls. How many are boys? than the second. than the second. Aron has some balloons. balloons. has Fiona got?



There are 3 less bugs in the third jar There are 40 bugs in total. How many bugs are in the first jar?

Fiona has 12 more balloons than Aron. In total they have 40 How many balloons



One of the numbers

Always, sometimes, • never.

odd number + odd number + odd number = even number

Use number cards to make numbers to test out if this statement is true.

Week 4	Recognise and use symbols for pounds (£) and pence (p); combine amounts to	
Barriers to ARE (misconceptions)	make a particular value	
Children may not know the value of a coin.	To know how to count money in pence	
Children may make mistakes when calculating.	To know how to count money in pounds	
Children may struggle to calculate when money is associated to	To know how to count money in pence and pounds	
the numbers.	To develop the skill of counting totals	
Children may struggle to use their knowledge of counting in	To develop the skill of combining amou	nts to make a total
2s,5s and 10s.		
Children may struggle to apply their knowledge of counting in		
2s,5s and 10s to combine when asked to find the total of given		
coins e.g 3 2p coins, 5 10p coins and 2 5p coins. 3x2=6, 5 x 10 =		
50 and 2 x 5 = 10 so 6 + 50 + 10 = 66p.		





Spring 1	(ear 2	
Week 5 Barriers to ARE (misconceptions) Children may not know the value of a coin. Children may make mistakes when calculating. Children may struggle to calculate when money is associated to the numbers. Children may struggle to use their knowledge of counting in 2s,5s and 10s. Children may struggle to apply their knowledge of counting in 2s,5s and 10s. Children may struggle to apply their knowledge of counting in 2s,5s and 10s to combine when asked to find the total of given coins e.g 3 2p coins, 5 10p coins and 2 5p coins. 3x2=6, 5 x 10 = 50 and 2 x 5 = 10 so 6 + 50 + 10 = 66p.	 Find different combinations of coins that To know how to find different co 	L.E.A.D. Academy Irust at equal the same amounts of money - prive ombinations of coins to make a total.
Fluency	Problem Solving	Reasoning
Match the amounts.	Make 50p three ways using the coins below. You can use the coins more than once.	How many ways can you make 10p usin only bronze coins? Did you use a strategy?



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The base 10 represents money. What coin is represented by each circle?		Lead • Empower • Achieve • Drive
Week 6 Barriers to ARE (misconceptions) Children may not know the value of a coin. Children may make mistakes when calculating. Children may struggle to calculate when money is associated to the numbers. Children may struggle to use their knowledge of counting in 2s,5s and 10s. Children may struggle to apply their knowledge of counting in 2s,5s and 10s. Children may struggle to apply their knowledge of counting in 2s,5s and 10s to combine when asked to find the total of given coins e.g 3 2p coins, 5 10p coins and 2 5p coins. 3x2=6, 5 x 10 = 50 and 2 x 5 = 10 so 6 + 50 + 10 = 66p.	 Solve simple problems in a practical cor of money of the same unit, including giv To know how to compare totals To develop the skill of finding th To develop the skill of finding th To develop the skill of finding ch To understand how to solve 2 st 	ntext involving addition and subtraction ving change le total le difference hange sep problems
Fluency Circle the box with the greatest amount.	Problem Solving	Reasoning





7p

I have more than you because I have a 50 pence coin. 5 copper coins can be worth more than '

Four 5 pence coins are worth more than two 10 pence coins.



Do you agree? Explain why.

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How much does he spend?

Work out the difference between a bag of sweets and a bar of chocolate.



How many pounds less does Amee have?

Amee Zac

Paul has £2 and 15p. Tony has £2 and 40p. How much more does Tony have than Paul?

Lola has



She spends 53p. What money will she have left?

Work out the difference between the amounts.

What could Oscar have?



How many different answers can you find?

Jake has 2p.

Jenny has 10p.

Both of them have a 2p coin.

What other coins could Jenny have?

I have 20p.

My change is more than 5p but less than 10p.

What could I have bought?



Ghost Train: 90p

Emily finds a 20p coin.

She puts it with her other three 20p coins.

Does Emily have enough to ride the ghost train?

Explain why.

Alex has 90 pence. He bought a rubber for 30 pence and wants to buy a pencil.



The shopkeeper will not sell him the pencil. Explain why.



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