Year 4 Learning and Progression Steps for Mathematics

What are Learning and Progression Steps (LAPS)?

The Learning and Progression Steps are designed to scaffold the learning required in order to meet the expectations of the National Curriculum. Statements in the Lancashire Key Learning for Mathematics document have been broken down into smaller steps to support teachers in planning appropriate learning opportunities. These key pieces of learning will support pupils in becoming fluent in the knowledge and skills of the curriculum and ensure that the learning is effective and sustained.

The number of steps is dependent on the learning and do **not** constitute expectations for the end of each term.

Orange (including the end of previous year expectation) are the steps in learning for the autumn term.

Green are the steps in learning for the spring term.

Yellow are the steps in learning for the summer term and incorporate the end of year expectations.

The colours correspond with the structure of the Lancashire Mathematics Curriculum and reflect how often each learning objective is explicitly taught across the year. Some key learning objectives are not taught in every term, and in some cases not in the summer term. This means that end of year expectations may need to be met before the end of the summer term.

The final step in the progression for each strand of learning is the end of year expectation.

The steps are not of equal size and different amounts of time may be required for children to move between individual steps. For example,



Some learning within the same end of year expectation has been split and designed to run concurrently alongside each other. For example,

Read and write numbers	Read multiples of 1000 to 10 000 in	Read multiples of 100 to 10 000 in	Read numbers to 10 000 where 0 is	Read numbers to 10 000 where 0 is	Read and write
up to 1000 in numerals	Write multiples of 1000 to 10 000 in	Write multiples of 100 to 10 000 in	Write numbers to 10 000 where 0 is	Write numbers to 10 000 where 0 is	numbers to at least
and in words	numerals and in words	numerals and in words	not used as a place holder	used as a place holder	10 000

Some LAPS may need to be completed before another can be started.

Where have they come from?

The Learning and Progression Steps (LAPS) have been derived from the Lancashire Key Learning in Mathematics statements, identified primarily from the National Curriculum 2014 programmes of study.

How are they different from the Key Learning Statements?

The Learning and Progression Steps (LAPS) are smaller, progressive steps which support learning towards the Key Learning in Mathematics expectations.

How are they different from the Key Learning Indicators of Performance (KLIPs)?

The Key Learning Indicators of Performance (KLIPs) document is an assessment tool. The Learning and Progression Steps (LAPS) document is a planning tool and is not intended to be used for summative assessment purposes. However, they may support teachers in judging whether children are on track to meet the end of year expectations at different points throughout the year.

The terms 'entering', 'developing' and 'secure' are used in Lancashire's assessment approach, KLIPs, as summative judgements in relation to age related expectations. Definitions for these terms can be found in the introduction to the KLIPs document.

How might Learning and Progression Steps (LAPS) in Mathematics be useful?

Learning and Progression Steps (LAPS) may be used in a number of ways. For whole class teaching, LAPS may be used to support differentiation. When planning, it may be appropriate to use LAPS statements to inform learning objectives for a session or number of sessions. Learning and Progression Steps (LAPS) in Mathematics should be selected according to the learning needs of the individual or group. Emphasis however, should always be on developing breadth and depth of learning to ensure skills, knowledge and understanding are sufficiently embedded before moving on.

The LAPS should **not** be used as an assessment tool, but they can inform teachers about children's progress towards the end of year expectations at the end of each term.

Are LAPS consistent with the other resources from the Lancashire Mathematics Team?

Yes, the LAPS are related to the content of the Mathematics Planning Support Disc and also the Progression Towards Written Calculation Policies and the Progression in Mental Calculation Strategies.

These can be found on the website:

www.lancsngfl.ac.uk/curriculum/primarymaths

Key Learning in Mathematics – Year 4

Number – number and place value	Number – addition and subtraction	Number – multiplication and division
 Count in multiples of 6, 7, 9, 25 and 1000 Count backwards through zero to include negative numbers Count up and down in hundredths <i>Read and write numbers to at least 10 000</i> <i>Read and write numbers with up to two decimal places</i> Recognise the place value of each digit in a four-digit number <i>Identify the value of each digit to two decimal places</i> <i>Partition numbers in different ways (e.g. 2.3 = 2+0.3 & 1+1.3)</i> Identify, represent and estimate numbers using different representations <i>(including the number line)</i> Order and compare numbers beyond 1000 <i>Order and</i> compare numbers with the same number of decimal places up to two decimal places Find <i>0.1, 1, 10, 100 or</i> 1000 more or less than a given number Round any number to the nearest 10, 100 or 1000 Round decimals (one decimal place) to the nearest whole number Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer <i>Describe and extend number sequences involving countina on or back in</i> 	 Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method) Select a mental strategy appropriate for the numbers involved in the calculation Recall and use addition and subtraction facts for 100 Recall and use addition and subtraction facts for 1 and 10 (with decimal numbers to one decimal place) Add and subtract mentally combinations of two and three digit numbers and decimals to one decimal place Add and subtract numbers with up to 4 digits and decimals with one decimal place using the formal written methods of columnar addition and subtraction so for columnar addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why Solve addition and subtraction problems involving missing numbers 	 Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method) Recognise and use factor pairs and commutativity in mental calculations Recall multiplication and division facts for multiplication tables up to 12 × 12 Use partitioning to double or halve any number, including decimals to one decimal place Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1 dividing by 1 multiplying together three numbers Multiply two-digit and three-digit numbers by a one-digit number using formal written layout Divide numbers up to 3 digits by a one-digit number using the formal written method of short division and interpret remainders
 different steps, including sequences with multiplication and division steps Read Roman numerals to 100 and know that over time, the numeral system changed to include the concept of zero and place value Solve number and practical problems that involve all of the above and with increasingly large positive numbers Number – fractions and decimals Understand that a fraction is one whole number divided by another (e.g. ³/₄ can be interpreted as 3 ÷ 4) Recognise, find and write fractions of a discrete set of objects including those 	 Geometry – properties of shapes Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes Identify lines of symmetry in 2-D shapes presented in different orientations Complete a simple symmetric figure with respect to a specific line of symmetry Continue to identify horizontal and vertical lines and pairs of perpendicular and parallel lines Identify and parallel lines 	 appropriately for the context Use estimation and inverse to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, division (including interpreting remainders), integer scaling problems and harder correspondence problems such as n objects are connected to m objects
 With a range of numerators and denominators Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten Count on and back in steps of unit fractions Compare and order unit fractions and fractions with the same denominators (including on a number line) Recognise and show, using diagrams, families of common equivalent fractions 	 Geometry – position and direction Describe positions on a 2-D grid as coordinates in the first quadrant Plot specified points and draw sides to complete a given polygon Describe movements between positions as translations of a given unit to the left/right and up/down 	 Estimate, compare and calculate dimerent measures, including money in pounds and pence Order temperatures including those below 0°C Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres Know area is a measure of surface within a given boundary Find the area of rectilinear shapes by counting squares Convert between different units of measure [e.g. kilometre to metret hour to minute]
 Recognise and write decimal equivalents of any number of tenths or hundredths Recognise and write decimal equivalents to ¹/₂ ¹/₃ 	Statistics Use a variety of sorting diagrams to compare and classify numbers 	 Read, write and convert time between analogue and digital 12- and 24-hour clocks
 Add and subtract fractions with the same denominator (using diagrams) Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number Solve simple measure and money problems involving fractions and decimals to two decimal places 	 and geometric shapes based on their properties and sizes Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts, time graphs Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs 	 Write amounts of money using decimal notation Recognise that one hundred 1p coins equal £1 and that each coin is 1/100 of £1 Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days and problems involving money and measures

These Learning and Progression Statements (LAPS) are designed to show the necessary steps in learning to make effective and sustainable progress within a single year. They begin with the 'end of year' expectation from the previous year and build up to the 'end of year expectation' of the current year.

The number of steps is dependent on the learning and do **not** constitute expectations for the end of each term.

The steps are **not** of equal size and different amounts of time may be required for children to move between individual steps.

	End of Year 3 expectation				Lea	Irning and Progr	ession Stateme	nts				End of Year 4 expectation
	Count from 0 in multiples of 4, 8, 50 and 100	Count in multiples of 1000 from 0 or any multiple of 1000	Cour from 0	nt in multiple or any multi	es of 25 iple of 25	Count in multi 0 or any m	ples of 9 from ultiple of 9	Count in 0 or a	multiples of 6 iny multiple o	5 from Co f 6	unt in multiples of 7 from 0 or any multiple of 7	Count in multiples of 6, 7, 9, 25 and 1000
	No equivalent objective in Year 3	Lal	ıbel positi	ve and nega	tive numbe	ers on a demarca	ated number lin	e (where t	he counting s	tep is one)		Count backwards through zero to include negative numbers
e Value	Count up and down in tenths	$\begin{array}{c c} \mbox{Count up in fractional} & \mbox{Count down in} & \mbox{Count up and down in} \\ \mbox{hundredths} \left(\frac{1}{100}\right) & \mbox{fractional hundredths} & \mbox{fractional hundredths} \\ \mbox{including where tenths} & \mbox{lincluding where} & \mbox{tenths boundaries are} & \mbox{tenths boundaries are} & \mbox{tenths boundaries are} & \mbox{crossed,} & \mbox{crossed} & \mbox{crossed} & \mbox{crossed} & & \mbox{crossed} & \mbox{crossed} $		p and down in al hundredths luding where bundaries are rossed, $\frac{39}{00'}$ 1, $\frac{1}{100'}$, $\frac{2}{100'}$,	Count up and decimal hund (0.01) includir tenths bound crossed e.g. 1.42, 1.4 1.39, 1.	down in dredths ng where aries are d, 1, 1.40, 38	Use knowledge of equivalence to refine the sequence, e.g. 1.42, 1.41, <u>1.4</u> , 1.39, 1.38		Count up and down in decimal hundredths (0.01) including where ones boundaries are crossed, e.g. 5.97, 5.98, 5.99, 6, 6.01, 6.02	Count up and down in hundredths		
er and Place	Read and write numbers up to 1000 in numerals and in words	Read multiples of 1000 to 10 000 in numerals and in wordsReaWrite multiples of 1000 to 10 000 inWrite		Read mult num Write mult	Read multiples of 100 to 10 000 in numerals and in words Write multiples of 100 to 10 000 in numerals and in words		Read numbers not used Write number	s to 10 000 as a place s to 10 000) where 0 is holder) where 0 is	Read num use Write num	bers to 10 000 where 0 is d as a place holder bers to 10 000 where 0 is	Read and write numbers to at least 10 000
Numbe	Read and write numbers	Read numbers with two	numerals and in words numerals ar Read numbers with two decimal places where 0 is n place holder				where 0 is not used as a place holder Read numbers with two decimal places where 0 is used as a place holder					Read and write numbers with up to
	with one decimal place	Write numbers with two decimal places where 0 is not used as a place holder					Write numbers with two decimal places where 0 is used as a place holder					two decimal places
	Recognise the place value of each digit in a three-digit number (hundreds, tens, ones)	Identify a four-digit number such as base 10 ap	r up to 10 pparatus	10 000 made from concrete materials is or representations of this			Make and ide	entify a fou place value	ır-digit numbe counters, an	er up to 10 (abacus and	000 using models such as arrow cards	Recognise the place value of each digit in a four-digit number
	Identify the value of each digit to one decimal place	v the value of each digit to one ecimal placeUse concrete materials to make a number with two decimal places e.g. straws		Use a plac the valu	ace value chart to identify lue of each digit to two decimal places		Identify the value of each digit to two decimal places in a variety of ways e.g. the value of the digit 7 in 53.27 is seven hundredths, $\frac{7}{100}$ or		Represent places us	numbers to two decimal ing £1, 10p and 1p coins	Identify the value of each digit to two decimal places	

Partition numbers in different ways (e.g. 146 = 100+40+6 and 146 = 130+16)	Partition a four-digit number (represented using place value counters) into thousands, hundreds, tens and ones, e.g. 2643 is 2 thousands (2000), 6 hundreds, (600) 4 tens (40) and 3 ones (3) Item the the the the counters) into thousands, hundreds, tens and ones, e.g. 2643 is 2 thousands (2000), 6 hundreds, (600) 4 tens (40) and 3 ones (3) Partition numbers with one decimal place (represented using straws or place value counters) into ones and tenths, e.g. 3.4 is 3 ones (3) and 4 tenths (0.4)			n a four-digit number nted using place value ers) into thousands, eds, tens and ones in it ways, e.g. 2643 is 2 I 5 hundred (2500) and 4 tens and 3 ones (143) Partition numbers wi (represented using s counters) into ones and e.g. 3.4 is 2 ones (2) and	Partition a four-digit without the use of p equipment into two g different way ith one decimal place straws or place value tenths in different ways, 1 one and 4 tenths (1.4)	number practical groups in 's Partitio without th	Partition without equipme different w appropria 15 15 n numbers wi e use of pract groups in dif	Partition numbers in different ways (e.g. 2.3 = 2+0.3 & 1+1.3)	
Identify, represent and estimate numbers using different representations (including the	Identify and represent numbers up to 10 000 using models such as place value counters, an abacus and arrow cards			lace multiples of 100 on r line with multiples of ed but not labelled (with t and end labelled 0 and 10 000)	number on a litiples of 1000 lied (with start and 10 000) Correctly place any number on a number line with multiples of 1000 marked but not labelled (with a variety of start and end points e.g. 2500 to 7500)			Identify, represent and estimate numbers using different representations	
number line)	Identify and represent numbers with up to two decimal places using models such as straws, place value counters and arrow cards			number line with mult not labelled (wi labelled	(0.01) on marked	a number lin but not labelle labelled	e with multiples of 0.1 ed (with start and end 0 and 1)	(including the number line)	
Compare and order numbers up to 1000	re and order rs up to 1000 re counters saying which number is greater or less and use <, > and = correctly. Pay particular attention to numbers that have the same digits, e.g. 2634 and 2643			three or more numbers 000 when represented dels such as place value aying which numbers are r less and use <, > and = Pay particular attention rs that have some of the same digits, 1615 < 3652 > 3625	Order numbers up to 1 different numbers of d represented using mod place value counters sa numbers are greate	0 000 with igits, when Order number els such as different num ying which which number r or less		bers up to 10 000 with umbers of digits, saying bers are greater or less	Order and compare numbers beyond 1000
Compare and order numbers with one decimal place	Compare two or more numbers with tenths and hundredths using concrete materials such as straws, saying which has more and less and use <, > and = correctly. Pay particular attention to numbers that have the same digits, e.g. 0.23 and 0.32	Order numl tenths and h using cor materials straws, sayi numbers ar or le Pay part attention to that hav same d e.g. 0.43, 0	bers with oundredths ncrete such as ing which re greater iss. ticular o numbers ve the ligits, 0.34, 0.14	Compare two or more numbers with ones, tenths and hundredths using concrete materials such as straws, saying which has more and less and use <, > and = correctly. Pay particular attention to numbers that have the same digits, e.g. 1.56, 1.65 and 6.15	Order numbers with ones, tenths and hundredths using concrete materials such as straws, saying which numbers are greater or less. Pay particular attention to numbers that have the same digits, e.g. 5.61, 1.56 and 6.15	Compare with the sa of decim saying whi is more or <, > and = Pay pa attention t that have digits, e.g. 162	numbers me number al places ch number ess and use correctly. rticular to numbers the same 115.62 and L.52	Order numbers with the same number of decimal places saying which numbers are greater or less. Pay particular attention to numbers that have the same digits, e.g. 65.12, 21.56 and 26.15	<i>Order and</i> compare numbers with the same number of decimal places up to two decimal places
Find 1, 10 or 100 more or less than a given number	Identify the number 100 given number with up to which digits stay which digit	0 more and le o four-digits re / the same and ts change	and 6.15 Identify the number one ts recognising and and base than a place, where the ones di one tenth mo		he tenth (0.1) more and er with up to one decimal digit stays the same e.g. hore than 2.4	Identify the number one tenth (0.1) more and less than a given number with up to one decimal place, where the ones digit changes e.g. one tenth less than 6			Find <i>0.1, 1, 10, 100 or</i> 1000 more or less than a given number

Round numbers to at least 1000 to the nearest 10 or 100	Identify the multiples of 10 immediately before and after a given four-digit number	Round number up to four-digits nearest ten, e.g rounds to 43	ers with ts to the g. 4356 1360	Identify the of 100 imm before and given fou numb	multiples nediately dafter a ur-digit per	Round nu up to four nearest h 4356 rou	umbers wit -digits to t undred, e. nds to 440	th the .g.)0	Identify th of 1000 in before a given fo nun	e multiples nmediately nd after a pur-digit nber	Round numbers with up to four-digits to the nearest thousand, e.g 4356 rounds to 4000	Round any number to the nearest 10, 100 or 1000
Round numbers to at least 1000 to the nearest 10 or 100	Identify the whole nur and after a number to the number	mbers immediately o one decimal place r is less than 10	v before e where	Round num nea tł	ibers with o arest whole ne number i	ne decimal number wh s less than 1	olace to th ere .0	e	Identify the and after a	e whole numb number to or the number is	ers immediately before ne decimal place where up to 10 000	Round decimals (one decimal place) to the nearest whole number
Find the effect of multiplying a one- or two-digit number by 10 and 100, identify the value of the digits in the answer	Use concrete materials to di model the dig effect of dividing a one- digit number by 10 e.g. f exchange each g straw for a rig tenth of a straw on and identify what changes col and what stays ho the same ne o	Describe the effect of viding a one- git number by 10, e.g.U dig dig 7 ÷ 10 = 0.7 The 7 has evanoved one blace to the ght; from the ses column to ar the tenths lumn. A place older (zero) is eeded in the ones column	Use concre materials model th effect of lividing a tw igit numbe 10 e.g. exchange e bundle of t straws for single stray nd each str or a tenth o straw and identify wh changes an what stay the same	ldentify and describe the relationship between		Use cond materia model effect dividing a digit numl 100 e. exchange straw fo hundredt straw a identify o changes what st the sau	crete Is to the of o one- ber by g. each or a h of a and and and ays me of	Desc eff dividi digit r 10 7 ÷ 1 Th mo plac right; toones the hi colum holde need oones a	cribe the ffect of ing a one- number by 20, e.g. .00 = 0.07 the 7 has wed two the 7 has the 7 has wed two the 7 has wed two the 7 has the 7 has th	Use concre materials model th effect of dividing a tu digit numbe 100 e.g. exchange e bundle of t straws for tenth straw, each straw for hundredth straw and identify wh changes an what stay the same	te to e vo- Describe the r by enffect of dividing a two- dividing a two- ach digit number by en 100, e.g. 73 ÷ 100 = 0.73 and Both digits have or a moved two of a places to d the right nat nd s	Find the effect of dividing a one- or two- digit number by 10 and 100, identifying the value of the digits in the answer
Describe and extend number sequences involving counting on or back in different steps	From given comple whether these are (constant step size) o	ete sequences, iden addition / subtract or multiplication / di	ntify tion livision			describe the rule in a multipl Imber sequence by identifyir D between two adjacent num		ule in a multiplication ice by identifying the o adjacent numbers		d number sequ ied rule withir ompetence e.g 10 000, 100	ences by using the children's number . 2, 4, 8, 16,;)0, 100,	Describe and extend number sequences involving counting on or back in different steps, including sequences with multiplication and division steps
Read Roman numerals from I to XII	Know that L represents 50 and C represents 100	Represent numbers with only additive properties i.e. not ending in 4 or 9	Knov onl before repre than less t	w that I can y be used e V and X to esent 1 less 5 (4) and 1 than 10 (9)	Repres number	ent any up to 50	Know th only b before L represen than 50 10 les 100	hat X be use and (nt 10 (40) a ss tha (90)	X can ised id C to IO less D) and han		Compare and contrast Roman numeral system and modern day number system	Read Roman numerals to 100 and know that over time, the numeral system changed to include the concept of zero and place value
Solve number problems and concrete problems involving these ideas	Children need frequent access to arrange of contexts using the content from all of the above. See Using and Applying, Contextual Learning and Assessment section form the Lancashire Mathematics Planning Disc.						Solve number and practical problems that involve all of the above and with increasingly large positive numbers					

	End of Year 3 expectation			Learning and P	Progression Statements			End of Year 4 expectation	
	Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method)	The	Children need frequent most efficient strategy r	opportunities to select nay differ between child	appropriate strategies fr dren as it will be based o	om the range they have n their confidence and c	learnt. ompetence.	Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method)	
	-	These step	s fit the Lancashire Progr	ession Towards Written	Calculation Policies and	Progression in Mental C	alculations Policies	-	
Number – Addition and Subtraction	Select a mental strategy appropriate for the numbers involved in the calculation	Recognise and solve calculations that involve known or related facts e.g. 250 + 130	Recognise that the numbers in calculations can be reordered to make calculating more efficient e.g. 18 + 6 - 8 becomes 18 - 8 + 6 and use this strategy where appropriate (This should be supported by concrete materials, pictures or jottings)	Recognise calculations that require counting on or back mentally e.g. 243 + 230 (counting on in hundreds and then in tens) and use this strategy where appropriate (This should be supported by concrete materials, pictures or jottings)	Recognise calculations that require mental partitioning e.g. 122 - 35 and use this strategy where appropriate (This should be supported by concrete materials, pictures or jottings)	Recognise calculations that require counting on mentally to find the difference e.g. 203 – 96 and use this strategy where appropriate (This should be supported by concrete materials, pictures or jottings)	Recognise calculations that require counting on or back mentally, bridging through a multiple of 10 efficiently e.g. 230 – 72 becomes 230 – 30 – 40 – 2 and use this strategy where appropriate (<i>This should be supported by</i> concrete materials, pictures or jottings) Recognise calculations that require a mental compensation method e.g. 213 - 58 becomes 213 - 60 + 2 and use this strategy where appropriate (<i>This should be supported by</i> concrete materials, pictures or iottings)	Select a mental strategy appropriate for the numbers involved in the calculation	
	Derive and use addition and subtraction facts for 100			There are no steps towa	ards this end of year expe	ectation		Recall and use addition and subtraction facts for 100	
	Derive and use addition and subtraction facts for multiples of 100 totalling 1000			There are no steps towa	ards this end of year expe	ectation		Recall and use +/- facts for multiples of 100 totalling 1000	
	Derive and use addition and subtraction facts for 100 Derive and use addition and subtraction facts for multiples of 100 totalling 1000	Derive and use additior 1 using number lines, b	n and subtraction facts for ar model and related facts	Derive and use addit 10 using nun and	tion and subtraction facts nber lines, bar model related facts	for Recognise that, to 10, the ones	Recognise that, when calculating addition facts to 10, the ones total 9 and the tenths total 1		

Add and subtract numbers mentally, including: - a three-digit number and ones - a three-digit number and tens - a three-digit number and hundreds	number to/from another two-digit number including crossing the hundreds boundary, e.g. 87 + 35Add and number number v cros (This could be supported by jottings or a number line)Add and number v cros (This could be supported by jottings or a number line)Add and subtract a number with one decimal place to/from a whole number, e.g. 6.3 + 4 (This could be supported by jottings or a number line)Add and number number cros cros cros cros cros cros 			a three-digit three-digit oundaries are 55 – 241 ted by jottings fline) and subtract a nur /from another w is not crossed, This could be sup or a num	number to/from a three-digit number including crossing the hundreds boundary, e.g. 122 – 35 (<i>This could be supported by jottings</i> or a number line) nber with one decimal there the ones boundary , e.g. 5.8 – 2.5 ported by jottings iber line)			Add nu nur hund (This d manot is cross could b or o	d and subtract a three-digit mber to/from a three-digit mber including crossing the reds boundary, e.g. 205 – 197 could be supported by jottings or a number line) a number with one decimal her where the ones boundary ed, e.g. 14.7 + 8.6 e supported by jottings a number line)	Add and subtract mentally combinations of two and three digit numbers and decimals to one decimal place
Add and subtract numbers with up to three digits, using formal written	Add two numbers with four digits using formal written methods of columnar addition with exchange e.g. 2326 + 3845	Add more than umbers with fou using formal w methods of colu addition with exc e.g. 2468 + 3326	n two ur digits ritten umnar change, + 3782	Add more numbers wit digits using fo method of addii e.g. 673 + 5	than two h up to four ormal written columnar tion, 394 + 3027	Add two decimal writt colu wi e.g	numbers with place using fo en methods o mnar addition th exchange, g. 54.7 + 73.6	h one ormal of n	Add more than two numbers with up to one decimal place using formal written methods of columnar addition with exchange, e.g. 268 + 34.7 + 356.5	Add and subtract numbers with up to 4 digits and decimals with one decimal place using the formal
methods of columnar addition and subtraction	Subtract two numbers with four digits using formal written methods of columnar subtraction with exchange e.g. 3845 - 2588 Subtract two digits using for of column exchange e.g.			Subtract two numbers with rour ts using formal written methods of columnar subtraction with exchange where the greater umber has 0 as a place holder e.g. 3805 - 2588			with one nal written ubtraction 3	Sub decin meth with num	tract two numbers with one nal place using formal written ods of columnar subtraction exchange where the greater ober has 0 as a place holder, e.g. 50.7 - 23.8	written methods of columnar addition and subtraction where appropriate
Estimate the answer to a calculation and use inverse operations to check answers	Use rounding to estimate the answ be estimated	ver to a calculati as 2400 + 400 = 3	on, e.g. 24 2800	23 + 389 could	Use inverse to check the answer to a calculation, e.g. 4423 + 2389 = 6812 can be checked by carrying out either of the following calculations correctly: 6812 - 4423 or 6812 - 2389					Estimate; use inverse operations to check answers to a calculation
Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction	Child See Using and Ap	lren need freque plying, Context	ent access ual Learnin	to arrange of co ag and Assessme	ntexts using the nt section form	e content fi the Lanca	rom all of the shire Mathen	above. natics P	lanning Disc.	Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction	Represent and solve a problem using structured pictorial representations such as the bar model								Solve addition and subtraction problems involving missing numbers	

End of Year 3 expectation				Lea	arning	and Progr	ession State	emen	nts					End of Year 4 expectation
Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method)		Children The most effi	need frequen ient strategy	t opportuniti may differ b	es to s etwee	select appr en children	opriate stra as it will be	itegie base	es from the rar ed on their con	nge they nfidence a	have lea and com	rnt. petence		Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method)
Understand how multiplication and division statements can be represented using arrays	Use arrays to identify 'factor' me	Use arrays to identify what the term Use arrays 'factor' means pairs				Identify factor pairs of a given within the multiplication tabl they know			Use appropriate factor pairs and commutativity in mental calculationsables thate.g. 300 x 6 = 3 x 100 x 6 which becomes 3 x 6 x 100 = 18 x 100			Recognise and use factor pairs and commutativity in mental calculations		
Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	Recall and use multiplication and division facts for the 6 multiplication table multiplication table				plication or the 11 able Recall and use multiplication able Recall and able Recall and division facts for the 9 multiplication table multiplication table			Recall and use and division multiplic	l use multiplication ion facts for the 7 plication table			nd use multiplication rision facts for the 12 Iltiplication table	Recall multiplication and division facts for multiplication tables up to 12 × 12	
Derive and use doubles of all numbers to 100 and corresponding halves Derive and use doubles of all multiples of 50 to 500	Use partitioning to double any number with up to four digits where the answer is less than 10 000	Use related f double a nu of tenth e.g. double	acts to mber s, 0.7 e	e partitioning puble a numbe with ones and tenths, e.g. double 6.8	to er	Use partit halve any number wl digit is	ioning to four digit here each even	Use hal eve sol ar cou 400	e partitioning to ve any four dig n number when me of the digits e odd e.g. 4524 ld be partitione into 0 + 500 + 20 + or 400 + 100 + 24	io jit re Use is halv ed or ed wh	e partition re a numl nes and t nere both are eve	ning to ber with enths digits en	Use partitioning to halve any number with ones and tenths where the tenths digit is even e.g. half of 3.6 could be partitioned into 3 + 0.6 or 2 + 1.6	Use partitioning to double or halve any number, including decimals to one decimal place
Write and calculate mathematical statements for multiplication and division using the multiplication tables that they	Recognise that mult by 0 gives a produc	iplying t of 0	ognise that m number by 1 c change the n	ultiplying a loes not umber	tiplying a es not nber 6 x 4 = 24 and			p La 00	Represent m three numbe e.g. 2 x 3 x 4 using a 2 x 3 a	Use esent multiplication of numbers using arrays three x 3 x 4 can be shown a 2 x 3 array four times 4		commutativity to er multiplication of numbers to simplify e calculation e.g. x 7 x 5 becomes x 5 x 7 = 20 x 7	Use place value, known and derived facts to multiply and divide mentally, including:	
know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods	Recognise that dividing a number by 1 does not change the number		Use kno fact	Use knowledge of place value and multiplication facts to divide related greater numbers e.g. 630 ÷ 9 = 70				lication ers	Divide a two-digit number by a one-digit number using a partitioning strategy e.g. 96 ÷ 4 becomes (80 ÷ 4) + (16 ÷ 4)			- multiplying by 0 and 1 - dividing by 1 - multiplying together three numbers		

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Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods	Usi	Use partitioning to calculate a three-digit number multiplied by a single digit number using grid method										
Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods	Divide two-digit numbers (beyond the multiplication facts) by a single digit number using the chunking method where there is no remainder e.g. 72 ÷ 4	Divide two-digit numbers (beyond the multiplication facts) by a single digit number using the chunking method where there is a remainder e.g. 56 ÷ 3	Divide three- by a single o using the chu where there is e.g. 2	digit numbers digit number nking method s no remainder 48 ÷ 4	Divide three-digit numbers by a single digit number using the chunking method, making the calculation more efficient by subtracting more than one multiple of 10 of the divisor e.g. 248 ÷ 4 by subtracting 240 (60 groups of 4) and 8 (2 groups of 4)	Divide three-digit numbers by a single digit number efficiently using the chunking method where there is a remainder e.g. 176 ÷ 6	Divide numbers up to 3 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context					
Use estimation to check answers to calculations and determine, in the	Estimate multiplication by rou using relate	unding to the nearest multiple of ed facts e.g. 384 x 6 ≈ 400 x 6	10 or 100 and	Use inverse t checi 2052 -	ion, e.g. 342 x 6 = 2052 can be g calculation correctly: r as not Y4 expectation)	Use estimation and inverse to check answers to calculations						
context of a problem, an appropriate degree of accuracy	Estimate division by rounding to the nearest multiple of 10 of the divisor and using related facts e.g. 352 ÷ 6 ≈ 360 ÷ 6 Use inverse to check the answer to a calculation, e.g. 256 ÷ 4 = 64 can be checked by carrying out the following calculation correctly: 64 x 4						context of a problem, an appropriate degree of accuracy					

Solve problems,		
including missing		Solve problems
number problems,		involving multiplying
involving		and adding, including
multiplication and		using the distributive
division (and		law to multiply two
interpreting		digit numbers by one
remainders),	Children need frequent access to arrange of contexts using the content from all of the above.	digit, division
including positive	See Using and Applying, Contextual Learning and Assessment section form the Lancashire Mathematics Planning Disc.	(including interpreting
integer scaling		remainders), integer
problems and		scaling problems and
correspondence		harder correspondence
problems in which		problems such as n
n objects are		objects are connected
connected to m		to m objects
objects		

	End of Year 3 expectation			Lea	Irning and Progr	ession Stateme	nts			End of Year 4 expectation
	Show concretely or pictorially that a fraction is one whole number divided by another (e.g. $\frac{3}{4}$ can be interpreted as $3 \div 4$)	This i	is consolidation of Yea	ar 3 learning	g and therefore t	there are no step	os towards t	his end of year expect	ation	Understand that a fraction is one whole number divided by another (e.g. $\frac{3}{4}$ can be interpreted as $3 \div 4$)
suo	Recognise, find and write fractions of a discrete set of objects: unit fractions and non- unit fractions with small denominators	Where a fraction of an amou facts, use pictorial representat of a set	unt cannot be found b ions, e.g. bar model, t of objects, e.g. $\frac{3}{8}$ of 12	y using kno to find non- 12	own division -unit fractions	Find non-u fra	nit fractior ction then 315 ÷ 45 >	is of an amount by us multiplying to scale u e.g. $\frac{4}{7}$ of 315 by calcu 7 to find $\frac{1}{7}$ of 315 which 4 to find $\frac{4}{7}$ of 315 wh	ing division to find the unit p by the numerator lating ch is 45 then ich is 180	Recognise, find and write fractions of a discrete set of objects including those with a range of numerators and denominators
Number – Fracti	Recognise that tenths arise from dividing objects into 10 equal parts and in dividing one- digit numbers or quantities by 10	Use pictorial representations object can be found by divid	s such as a 10 x 10 gric ling the object into on	l to show th le hundred	nat <u>1</u> 00 of an equal parts	Use pictorial representations such as a 10 x 10 grid to recognise that $\frac{1}{100}$ of an object can be found by dividing $\frac{1}{10}$ of the object into ten equal parts				Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten
	Count on and back in steps of $\frac{1}{2}, \frac{1}{4}$ and $\frac{1}{3}$	Count on in steps of any unit fra- boundaries e. $\frac{6}{8}, \frac{7}{8}, 1, 1\frac{1}{8}, 1\frac{2}{8},$	Count b	Count back in steps of any unit fraction crossing ones boundaries e.g.Use knowledge of equivalence fractions in the counting $\frac{5}{8}, \frac{3}{4}, \frac{7}{8}, 1, 1, \frac{1}{8}, 1, \frac{1}{4}, 1, \frac{1}{4}, \frac{1}{4}$			quivalence to begin to simplify e counting sequence e.g. , 1, $1\frac{1}{8}$, $1\frac{1}{4}$, $1\frac{3}{8}$, $1\frac{1}{2}$	Count on and back in steps of unit fractions		
	Compare and order unit fractions, and fractions with the same denominators (including on a number line)	This is consolidation of Year 3 learning and therefore there are no steps towards this end of year expectation								
	Recognise and show, using diagrams, equivalent fractions with small denominators	Use pictorial representatio fractions are equivale e.٤	ns such as fraction want where one fraction $g_{1,\frac{1}{6}}$ is the same as $\frac{3}{18}$	ills to recog i is a unit fra	nise where action	Use pictori fractions	al represei are equiva	ntations such as fracti lent where both fract e.g. $\frac{3}{4}$ is the same a	on walls to recognise where ions are non-unit fractions is $\frac{9}{12}$	Recognise and show, using diagrams, families of common equivalent fractions
	No equivalent objective in Year 3	Understand the hundredths heading in place value columns represents a given number of fractional hundredths, e.g. $\frac{3}{100}$ is equal to 0.03	Recognise and write equivalents for any of hundredths less e.g. $\frac{7}{100}$ is 0.0	e decimal number than <u>10</u> 100 07	Recognise equivalent t	that $\frac{10}{100}$ is to $\frac{1}{10}$ or 0.1	Reco equiv	gnise that $\frac{20}{100}$ is alent to $\frac{2}{10}$ or 0.2 and so on	Write any number of hundredths in fraction and decimal form e.g. $\frac{47}{100}$ is 0.47	Recognise and write decimal equivalents of any number of tenths or hundredths

Recognise and show, using diagrams, equivalent fractions with small denominators	Use concrete materials (such as money) or pictorial representations (such as a 10 x 10 grid) to show that $\frac{1}{2}$ is the same as $\frac{50}{100}$ which is 0.50 or 0.5	Use concrete materia pictorial representations show that $\frac{1}{4}$ is the same	Is (such as money) or (such as a 10 x 10 grid) to he as $\frac{25}{100}$ which is 0.25	Use concrete materials (such as money) or pictorial representations (such as a 10 x 10 grid) to show that $\frac{3}{4}$ is the same as $\frac{75}{100}$ which is 0.75	Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$				
Add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$]	Use pictorial representations, such as fraction str fractions with the same denominator crossin e.g. $\frac{5}{7} + \frac{4}{7} = \frac{9}{7}$	ips, to add and subtract Ig a ones boundary,	Add and subtract fra boundary by addi	Add and subtract fractions with the same denominator (using diagrams)					
Solve problems that involve all of the above	Children need freque See Using and Applying, Context	Children need frequent access to arrange of contexts using the content from all of the above. and Applying, Contextual Learning and Assessment section form the Lancashire Mathematics Planning Disc Children need frequent access to arrange of contexts using the content from all of the above. and Applying, Contextual Learning and Assessment section form the Lancashire Mathematics Planning Disc							
No equivalent objective in Year 3	Children need freque See Using and Applying, Context								

	End of Year 3 expectation	Learning and Progression Statements							
Geometry – Properties of Shapes	Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them	Identify properties of 2-D sha sides – number of sides, where parallel and perpend vertices – number of v angles – right, acute, obtuse an are equal diagonals – number, if and how line symmetry	pes including: any are equal, icular ertices d where angles v they intersect	Know an scalene, isc regular	d use the terms: osceles, equilateral r and irregular	use the terms: Name eles, equilateral quadr nd irregular		Name 2-D shapes including all triangles and quadrilaterals according to their properties	
		Identify properties of 3-D shapes including: faces or surfaces – number of faces and/or surfaces, where any are congruent (identical), parallel and perpendicular edges – number of edges, parallel and perpendicular vertices – number of vertices axis of symmetry			Name 3	Name 3-D shapes including all prisms and pyramids according to their properties			their properties and sizes
	No equivalent objective in Year 3	Identify a vertical or horizontal line of symmetry in a shape			From a set o	From a set of shapes, identify those with a vertical or horizontal line of symmetry and those without			Identify lines of symmetry in 2-D shapes presented in different orientations
	No equivalent objective in Year 3	Complete a simple symmetric figure using a vertical or horizontal line of symmetry			Complete a	Complete a simple symmetric figure where the line of symmetry is not vertical or horizontal			Complete a simple symmetric figure with respect to a specific
	Identify horizontal and vertical lines and pairs of perpendicular and parallel lines	This is consolidation of Year 3 learning and therefore there are no steps towards this end of year expectation						Continue to identify horizontal and vertical lines and pairs of perpendicular and parallel lines	
	Identify right angles, recognise that two right angles make a half-turn, three K make three quarters of a turn and four a K complete turn; rij identify whether angles are greater than or less than a right angle		Identify acute an where one of the	nd obtuse angles lines is horizontal	ldentify acute a where one of th	nd obtuse angles e lines is vertical	Identify acute and obtuse angles in any orientation		
		know that an angle less than a right angle is called 'acute' Know that an angle between a right angle and a straight angle is called 'obtuse'	Compare any two angles less than two right angles where one of the lines is horizontal, identifying which is greater and less	Order more than two angles less than two right angles where one of the lines is horizontal	Compare any two angles less than two right angles where one of the lines is vertical, identifying which is greater and less	Order more than two angles less than two right angles where one of the lines is vertical	Compare any two angles less than two right angles in any orientation, identifying which is greater and less	Order more than two angles less than two right angles in any orientation	Identify acute and obtuse angles and compare and order angles up to two right angles by size

	End of Year 3 expectation	Learning and Progression Statements				
Geometry – Position and Direction	Describe positions on a square grid labelled with letters and numbers	Know that the x axis is horizontal	Know that vertical lines on a grid can be identified by the value on the x axis from which they originate		Know that the first number in a coordinate pair refers to the x value and the second number	Describe positions on a 2-D grid as coordinates in the first quadrant
		Know that horizontal lines on a grid caKnow that the y axis is verticalidentified by the value on the y axis from they originate		lines on a grid can be on the y axis from which riginate	refers to the y value and read and write them using correct notation e.g. (x , y)	
	Describe positions on a square grid labelled with letters and numbers	Plot a single point on a coordinate grid from a	given coordinate pair	Plot	Plot specified points and draw sides to complete a given polygon	
	No equivalent	Describe movement of a spe	Describe movements between positions as translations of a given			
	objective in Year 3	Describe movement of a sp	ent of a specified point as a translation of a given unit using up and down e.g. six squares up			

	End of Year 3 expectation	Learning and Progression Statements						End of Year 4 expectation
Statistics	Use sorting	Use Venn diagrams with two intersecting sets to compare and sort objects, numbers and shapes including items that do not fit the criteria and placing these in the universal set (area outside the circles)						
	compare and sort objects, numbers	Use two criteria Carroll diagrams to compare and sort objects, numbers and shapes (understanding that Carroll diagrams are labelled 'is' and 'is not')						and classify <i>numbers</i> and geometric shapes based on their properties and sizes
	ana common 2-D and 3-D shapes	NB – the criteria used for comparing and sorting should be consistent with the properties from the Year 4 curriculum e.g. multiples of 7 and even number or regular and contains at least one acute angle						
	Interpret and present data using bar charts, pictograms and tables	Interpret and present discrete data using bar charts and a scale appropriate to Year 4 counting and place value	Choose the appropriate scale when representing data in a bar chart	Explain what a time graph is showing e.g. a child might describe temperature increasing or decreasing at different times during a day		Present time graphs from given data using appropriate scales	Understand that discrete data that can only take specific, separate values and the data sets are not related to each other Understand that continuous data is data that can take on any value along a continuum	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts, time graphs
	Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables	Answer questions using time graphs by reading from labelled values e.g. what was the temperature at 3:00pm (where each hour is labelled on the x axis)			Answer questions using time graphs by reading from between labelled values e.g. what was the temperature at 1:30pm (where each hour is labelled on the x axis)			Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs

End of Year 3 expectation	Learning and Progression Statements						End of Year 4 expectation	
	Measure lengths (m/cm/mm) use known measurements to r reasonable estimates includ numbers to two decimal plac	and nake objects including nur ces	n of different mbers to two aces	Add and subtract (including finding the difference) values of lengthMuincluding numbers to one decimal place (m/cm/mm)Mu(see progression in mental and written addition / subtraction)MuAdd and subtract (including finding the difference) values of massMuincluding numbers to one decimal place (kg/g)Mu(see progression in mental and written addition / subtraction)Mu		Multij (seo writ	oly and divide values of length (m/cm/mm) e progression in mental and ten multiplication / division)	Estimate, compare and calculate different measures, including money in pounds
Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g);	Measure mass (kg/g) and use k measurements to make reasor estimates including numbers to decimal places	nown nable o two decimal pla	of different mbers to two aces			Multi (see writ	ply and divide values of mass (kg/g) e progression in mental and ten multiplication / division)	
volume/capacity (l/ml)	Measure volume/capacity (I/m use known measurements to r reasonable estimates includ numbers to two decimal plac	Soure volume/capacity (I/mI) and known measurements to make easonable estimates including umbers to two decimal places		Add and subtract (including finding the difference) values of volume/capacity including numbers to one decimal place (I/mI) (see progression in mental and written addition / subtraction)		ultiply and divide values of volume/capacity (I/mI) e progression in mental and ten multiplication / division)	and pence	
	Add and subtract amounts of money including money notation where the pence is a multiple of 10p e.g. £24.60 + £8.50 (see progression in mental and written addition / subtraction)Multiply and divide amounts of money given in pence only e.g. 45p x 4 (see progression in mental and written multiplication / division)							
Continue to estimate and measure temperature to the nearest degree (°C) using thermometers	Place temperatures including negative num		ibers on a number line (this could be vertical)			Order temperatures including those below 0°C		
Understand perimeter is a measure of distance around the boundary of a shape Measure the perimeter of simple 2-D shapes	Recognise where sides are the length in a rectangles, includ squares and use this wher measuring and calculating perin e.g. perimeter of a square is le of one side multiplied by 4; 1 perimeter of an oblong is th length + the width multiplied	same ing Calculate the perim rectilinear figure wi neter lengths are g ngth (see progression in the written addition / s ne multiplication by 2	Calculate the perimeter of any rectilinear figure where all side lengths are given (see progression in mental and written addition / subtraction / multiplication)		Recognise where the sides are the same length in L and T shaped rectilinear figures and use this when measuring and calculating perimeter		ate the length of missing sides using known dimensions e progression in mental and tten addition / subtraction)	Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres
No equivalent objective in Year 3	There are no steps towards this end of year expectation			Know area is a measure of surface within a given boundary				
No equivalent objective in Year 3	Find the area of irregular shapes (including those with curved sides) by counting squares	Find the area of rectangles presented on squared paper where the sides are horizontal and vertical by counting squares	Use knowled find the area c counting squ	ge of arrays to of rectangles by ares in groups	Find the area of other rectilinear shapes presented on squared paper where the sides are horizontal and vertical by counting squares		Find the area of rectangles presented on squared paper where the sides are not horizontal and vertical by counting half squares	Find the area of rectilinear shapes by counting squares

Measurement

No equivalent objective in Year 3	Know that: 10mm = 1cm 100cm = 1m 1000m = 1km and vice versa Know that: 1000g = 1kg and vice versa Know that: 1000ml = 1 litre and vice versa Know that: 60 seconds = 1 minute 60 minutes = 1 hour 24 hours = 1 day 7 days = 1 week and vice versa		Use the relationship between diffe calculation necessary for conversion divide the numb NB – there is no requirement in Yea Therefore when converting from m to related facts and whole numbers of NB – there is no requirement in Yea Therefore when converting from g to related facts and whole numbers of NB – there is no requirement in Yea Therefore when converting from m to related facts and whole numbers e.g Use the relationship between diffical calculation necessary for conversion minutes, multiply the NB – when multiplying by 24 or 60, to e.g. how many Children will only convert from large	Convert between different units of measure [e.g. kilometre to metre; hour to minute]	
Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24- hour clocks	Know that 24 hour clock times are written using four digits e.g. 8:35am is 08:35 or 0835	Recognise that times on a digital 24 hour clock with an hour value between 0 and 12 are before midday (morning) and times between 12 and 24 are after midday (afternoon or night)	Calculate the analogue time from a given 24 hour clock time when the hour value is greater than 12	Tell the time on a 24-hour clock, e.g. 16:27 is 27 minutes past 4 in the afternoon	Read, write and convert time between analogue and digital 12- and 24-hour clocks
Continue to recognise and use the symbols for pounds (£) and pence (p) and understand that the decimal point separates pounds/pence	Recognise how place value columns i e	elate to money notation i.e. units/ones co quivalent 10p coins; hundredths column re	lumn relates to the number of £1 coins; te elates to the number of equivalent 1p coir	Write amounts of money using decimal notation	
Recognise that ten 10p coins equal £1 and that each coin is $\frac{1}{10}$ of £1	Recognise that one hur	Recognise that one hundred 1p coins equal £1		Recognise that each 1p coin is $\frac{1}{100}$ of £1, hence 1p being written as £0.01 which is consistent with the columns in a place value chart	

Solve problems		
involving money		Calua mushiama
and measures and		Solve problems
simple problems		involving converting
involving passage		from hours to minutes;
af time	Children need frequent access to arrange of contexts using the content from all of the above.	minutes to seconds;
of time	See Using and Applying, Contextual Learning and Assessment section form the Lancashire Mathematics Planning Disc. year	years to months;
Add and subtract		weeks to days and
amounts of money		problems involving
to give change,		
using both £ and p		money and measures
in practical contexts		
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