Year 2 Learning and Progression Steps for Mathematics

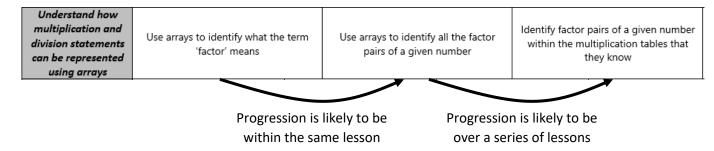
What are Learning and Progression Steps (LAPS)?

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.

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

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 1 expectation			Lea	arning and Pro	gression Statem	ents			End of Year 2 expectation
	Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number Count in multiples of twos, fives and tens	Count in steps of 10 forwards and backwards from any number using base 10 equipment	Count in steps of 10 forwards and backwards from any number using a 100 square	pattern square w in s 2 or 5 fro	and discuss ns on a 100 then counting steps of om 0 and tens ny number	Count in ste from 0 using p equipment s counters / o arranged in a	oractical such as cubes	Count in steps of 3 using a fully labelle number line	Count in stens of 3	Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward
ā	Read and write numbers to 100 in numerals	Write numbers up to 100	e words for the multiple in words using a word lis	es of 10) st (giving n				ad numbers up to 100 ite numbers up to 100		Read and write numbers to at least 100 in numerals and in words
Number and Place Value	Begin to recognise the place value of numbers beyond 20 (tens and ones)	Make and identify a two digit number up to 50 usin concrete materials e.g. bundles of straws, base 10 apparatus and match thes to arrow cards	digit number up to concrete materials place value cou	Make and digit numl using concurrence, e.g. bundles		dentify a two er up to 100 ete materials of straws, base paratus	digit n using c such	and identify a two umber up to 100 oncrete materials as place value s, abacus and arrow cards	Say what each digit represents in a two digit number	Recognise the place value of each digit in a two-digit number (tens, ones)
Nun	Identify and represent numbers using objects and pictorial representations including the number line	24.14.00 0. 50.41.0)	Make and identify a two digit number up to 50 using concrete materials such as place value counters, abacus and arrow cards	two digi to 100 u material apparatu	nd identify a t number up sing concrete s e.g. base 10 us, bundles of traws	Make and ide two digit nun to 100 us equipment s place value co abacus and cards	nber up sing such as ounters, arrow	Correctly place a number from 1 to 1 on a number line w multiples of 10 label	th multiples of 10 marked	Identify, represent and estimate numbers using different representations, including the number line
	No equivalent objective in Year 1	Make a two-digit number using concrete materials e.g. base 10 apparatus, bundles of straws, place value counters	s (represented using base apparatus) into tens an		(represented apparatus) in in different v	vo-digit number d using base 10 nto two groups vays where one multiple of 10	Partition a two-digit number (represented using base 10 apparatus) into two groups in different ways e.g. 43 = 40 + 3 or 31 + 12		Partition a two-digit number (represented using base 10 apparatus) in different ways e.g. 43 = 40 + 3 or 20 + 23 or 20 + 21 + 2	Partition numbers in different ways (e.g. 23 = 20 + 3 and 23 = 10 + 13)

Use the language of: equal to, more than, less than (fewer), most, least	Compare two 2-digit amore represented using the practical equipment say amount has more and for Pay particular attention to that have the same diginal and 43	e same ring which ewer/less to numbers	amounts with a saying saying more/r	e three or more 2-digit when represented using e practical equipment which amounts have most and fewer/less/ fewest/least ular attention to numbers the same digits e.g. 34 and 43	Order three or more amounts when represe the same practical eq Pay particular attention that have the same dig and 43	nted using uipment to numbers	compar Pay particu	<, > and = signs when ing one and two-digit numbers lar attention to numbers the same digits e.g. 34 and 43	Compare and order numbers from 0 up to 100; use <, > and = signs
Given a number, identify one more and one less	Identify the number 1 m less than a given number tens digit stays the	, where the	less than a	e number 1 more and 1 given number where the digit might change	Identify the number 10 less than a given nu		stays the sa	what changes and what ame when 10 is added or rom a two-digit number	Find 1 or 10 more or less than a given number
No equivalent objective in Year 1	Identify the multiples of or after a giv		ely before	and after a given numbe to each of these multip	f 10 immediately before or (not ending in 5), count oles of 10 and say which 10 is closest	between t	wo multiples	nber is exactly half way of 10, then the number her multiple of 10	Round numbers to at least 100 to the nearest 10
Recognise and create repeating patterns with numbers, objects and shapes	each digi	system is org t represents i l6 is 4 groups	n a two-digit	•	Recognise the co	6 on	e between or es = 6 s = 60	nes and tens, e.g.	Understand the connection between the 10 multiplication table and place value
Identify odd and even numbers linked to counting in twos from 0 and 1	Describe the rule in a number sequence counting on and back in twos from any number	Extend sequences of and back in any nu	counting on twos from	Describe the rule in a number sequence counting on and back in tens or twos from any number	Extend number sequences counting on and back in tens or twos from any number	Describe the number so counting o in fives, te from any	sequence n and back ns or twos	Extend number sequences counting on and back in fives, tens or twos from any number	Describe and extend simple sequences involving counting on or back in different steps
Solve problems and practical problems involving all of the above	See Usir	Children need frequent access to a range See Using and Applying, Contextual Learning and Asse			<u>-</u>			ng Disc.	Use place value and number facts to solve problems

	End of Year 1 expectation				Lea	arning ar	nd Progr	ession Statem	ents			End of Year 2 expectation
	No equivalent objective in Year 1	7							gies from the range th sed on their confiden	-		Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting)
		These	steps fit t	the Lancashir	e Progression Tow	ards Wri	itten Ca	lculation Polici	es and Progression in		Iculations Policies hise calculations that require	
Number – Addition and Subtraction	No equivalent objective in Year 1	Recognise and solve calculations that involve known facts e.g. 6 + 12	terricient e.g. 4 + 33 becomes 33 + 4 and use this strategy where appropriate (This should be supported by concrete materials, pictures or jottings) (Counting back in tens) and use this strategy where appropriate (This should be supported by concrete materials, pictures or jottings) (Counting back in tens) and use this strategy where appropriate (This should be supported by concrete materials, pictures or jottings) (Counting back in tens) and use this strategy where appropriate (This should be supported by concrete materials, pictures or jottings) (Counting back in tens) and use this strategy where appropriate (This should be supported by concrete materials, pictures or jottings) (This should be supported by concrete materials, pictures or jottings)									
Number – A	Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs	Model addition nur sentences using concrete materia	mber	Recognise two or mo	that addition of re numbers can in any order	two d	or more done in a	nat addition of numbers can any order to culations for ency	Model subtraction sentences us concrete mate	ing	Recognise that (in practical situations) the subtraction of one number from another cannot be done in any order	Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot
	Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs	Know that 'take away an amount from another am Identify subtraction as different contexts by and interpreting the	m within ount. s 'take av understa ne langua	Kno way' in two unding r	amounts and find	in difference is comparing number sentences using understanding a understanding a number sentences using understanding a				inise subtraction as 'difference' in different contexts by rstanding and interpreting the language involved	Understand subtraction as take away and difference (how many more, how many less/fewer)	
	Represent and use number bonds and related subtraction facts within 20	Recall and use addition and subtraction facts totalling 10					ction fac	e addition and cts totalling 20 nd subtraction	Derive and use add subtraction fac multiples of 10 total	cts of	Use ten frames to explore addition and subtraction facts for all numbers up to 20	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100

	Represent and use number bonds and related subtraction facts within 20	Derive and use ad	dition a	nd subtraction	on facts of mul	Itiples	of 10 totalling 60	Derive and use a	ddition a	ind subtract	ion facts of mult	iples of 5 totalling 60	Recall and use number bonds for multiples of 5 totalling 60 (to support telling time to nearest 5 minutes)
	Add and subtract one-digit and two-digit numbers to 20, including zero (using concrete objects and pictorial representations)	Partition and combine multiples of tens and ones (Practically then pictorially then mentally)	subtr digit to/fro digit (not tens l	Add and tract a one- git number from a two- git number ot crossing s boundary) actically then torially then mentally) Add three sing digit number including bridging throu 10 and/or 20		ers bugh 20 then	Add and subtract a multiple of 10 to/from a two-digit number (not crossing hundreds boundary) (Practically then pictorially then mentally)	Add and subtract a one-digit number to/from a two-digit number including crossing a tens boundary (Practically then pictorially then mentally)	subtra digit to/froi tw num cros bou	Id and act a two- number m another o-digit ber (not sing any ndaries) ically then intally then	Add and subtract a two digit number two-digit number including crossing a ter boundary (Practically)	another two- digit number including crossing the hundreds boundary	Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: - a two-digit number and ones - a two-digit number and tens - two two-digit numbers - adding three one-digit numbers
-	Solve one-step	The	se steps fit the Lancashire Progress		ression Towards Written C		culation Policies ar	nd Progre	ession in Me	ental Calculation	ns Policies		
	problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = \$\square\$ - 9	Recognise and us knowledge that 4 + 5 = 9 can be checked by using inverse operati 9 - 4 = 5 or 9 - 5 = 4	et e the	12 – 4 = 8 can be checked by using the inverse operation 8 + 4 = 12 or		Recognise that 4 + ? = 9 can be solved by calculating 9 – 4 = ? because 9 is the whole which is made of two parts one of which is 4		Recognise to the second	e solved 2 – 8 = ? e whole of two	? + 3 = 11 by calcula because 1 which is	gnise that can be solved iting 11 – 3 = ? 1 is the whole made of two e of which is 3	Recognise that ? – 5 = 9 can be solved by calculating 9 + 5 = ? because two parts which are 9 and 5 go together to create the whole	Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems
	Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = □ - 9	·		e a problem materials	using	R		problem using pict s of the items in ontext	torial		•	oblem using structured such as the bar model	Solve problems with addition and subtraction including with missing numbers: - using concrete objects and pictorial representations, including those involving numbers, quantities and measures - applying their increasing knowledge of mental and written methods

	End of Year 1 expectation				Lea	arning and Prog	ression Stateme	nts				End of Year 2 expectation
	No equivalent objective in Year 1	Represent doubling using concrete materials Understand that doubling is ac number to itself and multiplyir	dding a	sente doul	wo different ences to rep bling situat 6 + 6 = 12 a 6 x 2 = 1	oresent a ion e.g. and 2	concrete m groups and th form as ar	more times aterials arr	s using ranged in structured link this		rite two different number ences to represent repeated addition situations e.g. $5+5+5=15 \text{ and}$ $5 \times 3=15$	Understand multiplication as repeated addition and arrays
	No equivalent objective in Year 1	Share an amount equally acros where there is no remainder share 20 sweets between 5 ch	e.g.	amount ed there is a pencils beto pencils on	qually acro remainder ween 3 tab	s, share an ss sets where e.g. share 23 lles results in 7 and 2 pencils shared	Make equal amount where e.g. make tear 30 ch	e there is n	o remainder n a group of	amou	e equal sized groups from an nt where there is a remainder e.g. give 3 buttons to each bread man when there are 23 buttons in total; 26 ÷ 5	Understand division as sharing and grouping and that a division calculation can have a remainder
Number – Multiplication and Division	No equivalent objective in Year 1	Model multiplication number sentences using concrete materials	the sta repre mu	reate an array and identify the two multiplication statements that are represented to show that multiplication of two numbers can be done in any order Use the multiplication order to multiplicati from anoth know what t are but I known are eight			eract that ention of two be done in any derive one on statement er e.g. 'I don't wo lots of four ow four lots of ent so it is the me.' Model division nur sentences usin concrete materi				Recognise that (in practical situations) the division of one number from another cannot be done in any order because they give different answers	Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot
Number – N	Count in multiples of twos, fives and tens	I	call and use multiplication and ivision facts for the 10x table			plication and he 5x table	Recall and u division fa	se multiplicts for the		lookin	ify odd and even numbers by g at the ones digit and relating n numbers to multiples of 2	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers
	Recall and use doubles of all numbers to 10 and corresponding halves	the relationship between t doubling of a single digit num the doubling of its related mu of 10 e.g. double 3 is 6 and do	ubling of a single digit number to e doubling of its related multiple 10 e.g. double 3 is 6 and double 3 tens is 6 tens which is 60			Use the previously identified relationship to recall and use doubles of all multiples of 10 up to 50		reviously id ip to recall I multiples 100	and use	two	partitioning to double simple o-digit numbers (numbers in h the ones total less than 10)	Derive and use doubles of simple two-digit numbers (numbers in which the ones total less than 10)
	Recall and use doubles of all numbers to 10 and corresponding halves	Use base 10 equipment to explore the relationship between the halving of a single d even number to the halving of its related mult of 10 e.g. half of 6 is 3 and half of 6 tens is 3 t which is 30			ngle digit Use the previously identified re and use halves of all multiple							Derive and use halves of simple two-digit even numbers (numbers in which the tens are even)

No equivalent	Represent adding the same n more times using concret		C	reate an array to multiplic	o represent a give	en	Write t	repres	rent number sentences to sent an array e.g. 5 + 5 = 15 and 5 x 3 = 15	Calculate mathematical statements for multiplication (using repeated addition) and division within
objective in Year 1	Use concrete materials to	Write a number s represent the am grouped, the nu each group and b groups are created 20 ÷ 5 =	ount being mber in ow many ted e.g.	many groups can be made	ay, show how of a given size from the total vs or columns)	represent number 20 ÷ 5 = 3 as how	number sente nt the total ar of groups of a size e.g. ? understandi many groups e made out of	nd the given ng this of 5	Select from grouping or sharing strategies depending on the context e.g. sharing should be used when dividing by 2 and finding fractions	the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs
Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher	Represent and solve a problem of concrete materials	pictoria		problem using ations of the ontext	Represent and structured pice.	•	esentations	mear	derstand what a remainder ns in the context of a problem ow this may affect the answer	Solve problems involving multiplication and division (including those with remainders), using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts

	End of Year 1 expectation			Learnin	g and Prog	ression Stat	ements			End of Year 2 expectation				
	Understand that a fraction can describe part of a whole Understand that a unit fraction represents one equal part of a whole			presentations to explorence of equal parts into split			concrete materials and se that the numerator is			Understand and use the terms numerator and denominator				
suc	Understand that a fraction can describe part of a whole Understand that a unit fraction represents one equal part of a whole	Re	cognise that one 'whol	e' could be one whole န	group of ite	ms e.g. a gr	oup of 12 teddy bears (could be one whole gro	up	Understand that a fraction can describe part of a set				
Number – Fractions	No equivalent objective in Year 1	Split the s	Split the same shape or set into different numbers of equal parts and compare the sizes of the denominators e.g. a half and a quarter											
	Recognise, find and name a half as one of two equal parts of an object, shape or quantity (including measure) Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity (including measure)	Find $\frac{1}{4}$ of a shape, object, set of objects / quantity and length and write the fraction $\frac{1}{4}$	et of of four equal parts of an object or and write of an object or of an object or of an object or other and write of sand write of sand write or change and write or change are change and write or change and write or change are change and write or change and write or change are change are change and write or change are change and write or change are change are change are change are change and write or change are change are change are change are change a											
	No equivalent objective in Year 1	Use equations to	se equations to represent the fractions of amounts being calculated $\frac{3}{4} \text{ of } 8 = 6$ Find $\frac{1}{2}$ and $\frac{2}{4}$ of an object, set of objects / quantity and length and recognise that these are the same											

	No equivalent objective in Year 1	Count on in steps of $\frac{1}{2}$ in the form $\frac{1}{2}, \frac{2}{2}, \frac{3}{2}, \frac{4}{2}$, $\frac{5}{2}$	Count back in steps of $\frac{1}{2}$ in the form $\frac{5}{2}, \frac{4}{2}, \frac{3}{2}, \frac{2}{2}, \frac{1}{2}$	Use concrete materials or pictorial representations to change the counting sequence from $\frac{1}{2}$, $\frac{2}{2}$, $\frac{3}{2}$, $\frac{4}{2}$, $\frac{5}{2}$ to $\frac{1}{2}$, 1, 1 $\frac{1}{2}$, 2, 2 $\frac{1}{2}$	Count on in steps of $\frac{1}{4}$ in the form $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$, $\frac{4}{4}$,	Count back in steps of $\frac{1}{4}$ in the form $\frac{5}{4}$, $\frac{4}{4}$, $\frac{3}{4}$, $\frac{2}{4}$, $\frac{1}{4}$	Use concrete materials or pictorial representations to change the counting sequence from $\frac{1}{4}, \frac{2}{4}, \frac{3}{4}, \frac{4}{4}, \frac{5}{4} \text{ to }$ $\frac{1}{4}, \frac{1}{2}, \frac{3}{4}, 1, 1, \frac{1}{4}$	Count on and back in steps of $\frac{1}{2}$ and $\frac{1}{4}$
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	End of Year 1 expectation		Lea	arning and Progression Stateme	nts		End of Year 2 expectation
Shapes	Recognise and name common 2-D shapes, including rectangles (including squares), circles and triangles	Know that a vertex in a 2-D shape is where two sides meet (and the plural is vertices)	Identify the number of sides and vertices of 2-D shapes and recognise that this is the basis for naming them, e.g. any shape with five sides is a pentagon	Describe 2-D shapes according to the number of sides and vertices, and whether any of the sides or vertices are the same size as each other, e.g. oblong and regular hexagon	Identify a vertical line of symmetry in a shape	From a set of shapes, identify those with a vertical line of symmetry and those without	Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line
Geometry – Properties of S	Recognise and name common 3-D shapes, including cuboids (including cubes), pyramids and spheres	Know that a face is a flat surface of a 3-D shape	Identify the number and shape of the faces or curved surfaces of 3-D shapes and recognise that this is the basis for naming them, e.g. a triangular prism has three rectangular faces and two identical (congruent) triangular faces which can be any type of triangle	Know that an edge on a 3-D shape is where two faces / curved surfaces meet Know that a vertex on a 3-D shape is where three or more edges meet	Describe 3-D shapes according to the number and shape of the faces, the number of edges and vertices and whether any of the faces are the same as each other	Identify similarities and differences between pairs / sets of 3-D shapes	Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces
	Recognise and name common 2-D shapes, including rectangles (including squares), circles and triangles	Find the	face on a 3-D shape that is a sp	ecified 2-D shape, e.g. find the so	quare face on this square based	pyramid	Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]

	End of Year 1 expectation		Lea	arning and Progression Stateme	nts		End of Year 2 expectation
ection	Recognise and create repeating patterns with objects and shapes	This is	consolidation of Year 1 learning	and therefore there are no step	s towards this end of year expe	ctation	Order/arrange combinations of mathematical objects in patterns /sequences
Geometry – Position and Dire	Describe position and direction Describe movement, including whole, half, quarter and three-quarter turns	Know that a full turn is the same as a turn through four right angles	Know that a half turn is the same as a turn through two right angles	Know that a quarter turn is the same as a turn through one right angle	Know that a three-quarter turn is the same as a turn through three right angles	Understand and use the language clockwise and anti- clockwise	Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise)

	End of Year 1 expectation					Lear	ning and Progr	ession State	ements					End of Year 2 expectation
	Sort objects, numbers and shapes to a given criterion and their own	Use everyday langua compare two objectidentifying propertie they both share a properties that make different	to compare two notes by fying properties that by both share and they both share them different to compare two notes that make them different to compare two notes to compare two notes that the properties that make them different to compare two notes that the properties that make them different to compare two notes the properties that make them different to compare two notes the properties that make them different to compare two notes the properties that make them different to compare two notes the properties that make them different to compare two notes the properties that make them different to compare two notes the properties that make them different to compare two notes the properties that make them different to compare two notes the properties that make them different to compare two notes the properties that make them different to compare two notes the properties that make them different to compare the properties that make them different to compare the properties that make them different to compare the properties that make the properties that make the properties that the properties				Use mathema to compare to identifying pr they both properties that diffe	wo shapes be operties that share and	y Sort numbers range	or shape of mat	objects, pes using the hematical t they know	proper object:	ntify the property / rties by which a set of s, numbers or shapes has been sorted	Compare and sort objects, numbers and common 2-D and 3-D shapes and everyday objects
Statistics	Present and interpret data in block diagrams using practical equipment	Use given data to Construct and interpret simple interpret a block				given data to nstruct and nterpret a gram in which h symbol is worth 1	construction construction collect da tally ch interpr	ta using a art and	Construct interpret dat pictogram in each symb worth 1	ta as a which ool is	Constructinterpret data pictogram in each sym	ata as a n which bol is	Construct and interpret data as a pictogram in which each symbol is worth 2	Interpret and construct simple pictograms, tally charts, block diagrams and simple tables
.S.	Ask and answer simple questions by counting the number of objects in each category		wer questions which ask 'How many…?' in a given data category		' in a	Understand and use the language of most and least common / popular				d Order the amounts for each category in a data set				Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity
	Ask and answer questions by comparing categorical data	Answer questions which ask 'How many more paring when comparing two categories					y fewer?'	e.g. How	many children	n walk o	r cycle to scho	ol? (tota	given data categories Iling two categories) alling all categories)	Ask and answer questions about totalling and comparing categorical data

	End of Year 1 expectation	Learning and Progression Statements								End of Year 2 expectation
	Measure and begin to record: - lengths and heights, using nonstandard and then manageable standard units (m/cm) - mass/weight, using non-standard and then manageable standard units (kg/g) - capacity and volume using nonstandard and then manageable standard units (litres/ml) - time (hours/minutes/seconds) within children's range of counting competence	measure length and height (m/cm)		Choose and correctly use the appropriate equipment to measure lengths and heights e.g. ruler, metre rule, tape measure, trundle wheel		Know common points of reference for length / height such as a ruler is 30cm and a doorway is 2m tall		Use the common points of reference they know to estimate the lengths and heights of other objects		Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity and volume (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring
Measurement		Choose the correct standard units to equipment measure mass (kg/g) balance s			e and use the correct of to measure mass e.g. ales, kitchen scales (with propriate scale)	Know common points of reference for mass such as a small packet of crisps has a mass of between 25g and 30g and a bag of sugar has a mass of 1kg		Use the common points of reference they know to estimate the mass of other objects		
		Choose the correct standard units to measure volume / capacity (litres/ml) capacity e		e and use the correct of to measure volume / g. measuring cylinders / th appropriate scales	Know common points of reference for volume / capacity such as a teaspoon / medicine spoon has a capacity of 5ml and a large bottle of fizzy drink is 2 litres		Use the common points of reference they know to estimate the volume in / capacity of other vessels			
		Know that temperature is measured in degrees Celsius (°C) Know that temperature is measured using a thermometer and read the temperature on a thermometer		Know that average room temperature is between 18°C and 20°C	Use the knowledge of average room temperature to say whether the temperature outside is hotter / warmer or colder / cooler Estimate and read the temperature on a partially marked thermometer scale where the reading is a multiple of 5 Estimate and read the temperature on a partially marked thermometer scale, using the labelled marks to read to the nearest degree		vessels			
	Compare, describe and solve practical problems for: - lengths and heights (for example, long/short, longer /shorter, tall/short, double/half) - mass/weight (for example, heavy/ light, heavier than, lighter than) - capacity and volume (for example, full/empty, more than, less than, half, half full, quarter) - time (for example, quicker, slower, earlier, later)	Compare the values of two lengths, masses and volumes / capacities			Order the values of three or more lengths, masses and volumes / capacities		Use <, > and = to compare the values of lengths, masses and volumes / capacities, e.g. 34cm < 43cm; 76g > 67g; 80ml = 80ml (when comparing two differently shaped vessels)		Compare and order lengths, mass, volume/capacity and record the results using >, < and =	

Recognise and know the value of different denominations of coins and notes	Recognise that p in the context use this sym		Recognise that £ in use this sy	Recognise and use symbols for pounds (£) and pence (p)				
Recognise and know the value of different denominations of coins and notes	Add two prices together to find the		that amounts of money titioned in different ways (using coins) can be 30p and 20p or 15p and 35p	For a given value, identify how much more can be spent following the purchase of one item, e.g. 38p + ? = 50p		Identify combinations which can be bought for a specific amount of money e.g. what two or more items can I buy for exactly 70p?	Combine amounts to make a particular value	
Recognise and know the value of different denominations of coins and notes	number of 1p coins and understand that, for example, ten 1p coins have the same value as example, five 10p coins			£1 coins for the correct nd understand that, for have the same value as Op coin Exchange different coins for other coins of the same value		Find different combinations of coins that equal the same amounts of money		
Recognise and use language relating to dates, including days of the week, weeks, months and years	Know that there are 60 minutes in 1 hour Know that there are 24 hours in 1 day							
Recognise and use language relating to dates, including days of the week, weeks, months and years Sequence events in chronological order using language (for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening	Put units of time (second, minute, ho from shortest to lor	-		To enable comparison calculation strategies to $\frac{1}{2}$ of 60 minutes which	Compare and sequence intervals of time			

face to show these times No equivalent objective in Year 1	the hour (NB - it will have moved one quarter of the way between the hour numbers)	three quarters of the way between the hour numbers and therefore has one quarter of the space left to go))	10 minutes past, 15 minutes past (quarter past), 20 minutes past etc.	minutes past)	10 minutes to, 15 minutes to (quarter to), 20 minutes to etc.	minutes to) of the above.	five minutes Disc.	Solve simple problems in a practical context involving addition and subtraction of money of the same
Tell the time to the hour and half past the hour and draw the hands on a clock	Tell the time for quarter past the hour and draw hands on a clock to show the time, recognising that the hour hand will not be exactly on	Tell the time for quarter to the hour and draw hands on a clock to show the time, recognising that the hour hand will not be exactly on the hour (NB - it will have moved	Count in fives clockwise starting at 12 (for zero) to 6 (for thirty) progressing to counting in times, e.g. 5 minutes past,	Tell the time to the nearest five minutes past the hour (up to 25	Count in fives anti- clockwise starting at 12 (for zero) to 6 (for thirty) progressing to counting in times, e.g. 5 minutes to,	Tell the time to the nearest five minutes to the next hour (up to 25	Draw the hands on a clock to show the time to the nearest	Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a