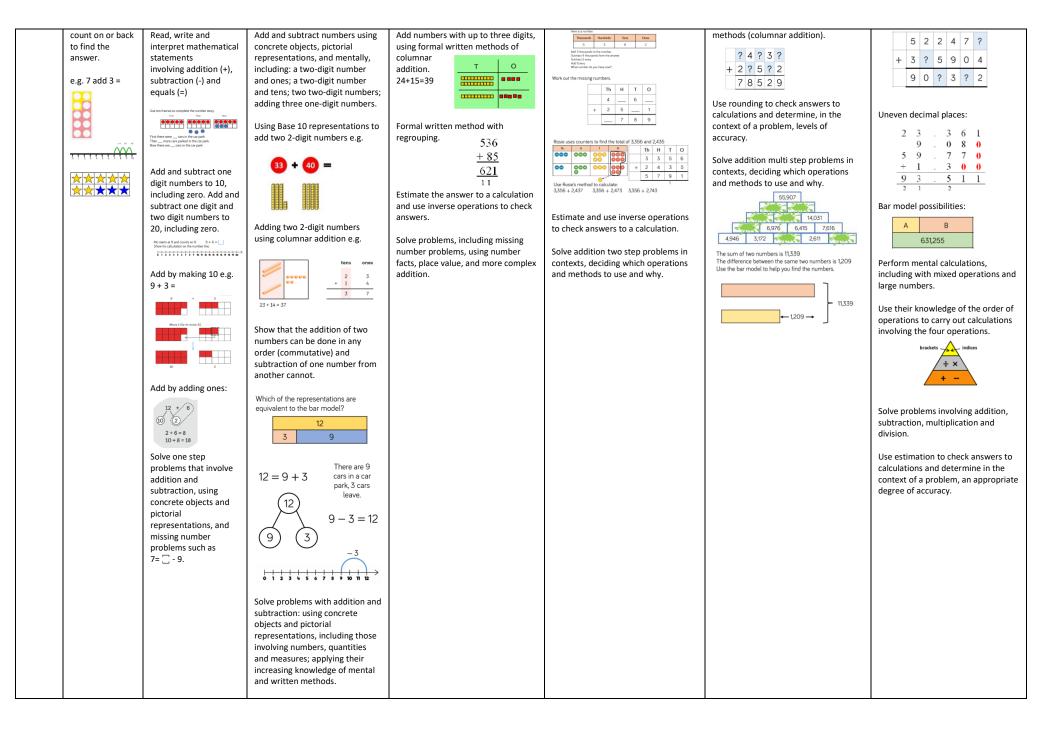
## Maths progression Y2-6 2019-20

## (Examples indicate end of year expectations)

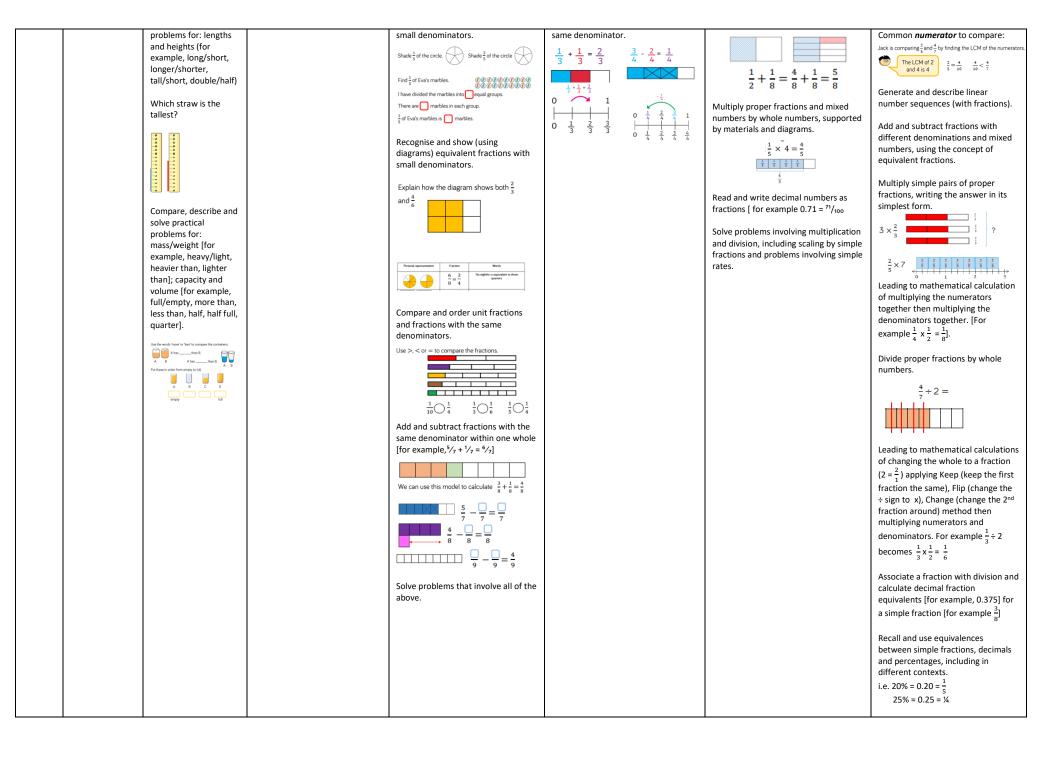
Topic	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Place	Count reliably	Count to 100, forwards	Read and write numbers to at	Identify, Representation Number	Count in multiples of 6, 7, 9, 25 and	Read, write, order and compare	Read, write, order and compare
Value	with numbers	and backwards,	least 100 in numerals and in	represent and	1000.	numbers to at least	(using $<>$ = signs) numbers up to
Value	from 1 to 20,	beginning with 0 or 1,	words.	estimate		1,000,000 and determine the value of	10,000,000 and determine the value
	place them in	or from any given	words.	numbers using	Complete the missing baxes: Find 1000	each digit.	of each digit.
	•	10	December the place value of	different		each digit.	0
	order and say	number.	Recognise the place value of			Count formula on booling and in store	Complete the missing numbers.
	which number is	Fill in the missing numbers.	each digit in a two digit number	representations.		Count forwards or backwards in steps	6,305,400 = + 300,000 + + 400 7,001,001 = 7,000,000 + +
	one more or one	15 17	(tens, ones).		number <del>&gt;</del> _1000 → 986	of powers of 10 for any given number	42,550 =+ ++
	less than a given	16 11		300 + 3 = 3 0 0 3		up to 1,000,000.	Round any whole number to a
	number.		Tens Ones	303	Recognise the place value of each	Complete the table.	required degree of accuracy.
		Count, read and write	An Anno II -		digit in a four digit number	Add 10 Add 100 Add 1000	
		numbers to 100 in	<b>333</b> /////	Find 10 or Complete the table.	(thousands, hundreds, tens and ones).	2,506	Use negative numbers in context,
		numerals and words.		100 more	What is the value of the underlined digit in each number?	6,070	and calculate intervals across zero.
				or less	6,9 <u>8</u> 3 <u>9</u> ,021 <u>7</u> 89 6,57 <u>0</u>	40/0	Use the number line to answer the following:
		Given a number,	Identify, represent and estimate	than a	Represent each of the numbers on a place value grid.		-5 -4 -3 -2 -1 0 1 2 3 4 5
		identify one more or	numbers using different	given number.		Round any number up to 1,000,000 to	<ul> <li>What is 6 less than 4?</li> <li>What is 5 more than -2?</li> </ul>
		one less.	representations including the		Order and compare numbers beyond	the nearest 10, 100,	<ul> <li>What is the difference between 3 and -3?</li> </ul>
			number line.	Recognise the place value of each	1000.	1,000, 10,000 and 100,000.	Solve number and practical
		37	(37) Tens Ones	digit in a three-digit number			problems that involve all of the
		46 47	Si lens Ones	(hundreds, tens, ones).	Identify, Complete the sentences	Solve number problems and practical	above.
		55 57			represent	problems that involve all of the above.	
		65		Hundreds Tens Ones	and The number is		
					estimate	Read Roman numerals to 1,000	
					numbers	(M) and recognise years written in	
		Identify and represent			using	Roman numerals.	
		numbers using objects		Compare and order numbers up to	different	Noman numerals.	
		and pictorial		1000 (using < > = signs and	representations.	Interpret negative numbers in context,	
		representations	Compare and order numbers	accompanying language).	representations.	count forwards and backwards with	
		including the number	from 0 up to 100; use <, > and =	accompanying language).	Round Start number Rounded to Rounded to Rounded to	positive and negative whole numbers	
		-	signs.	Read and write numbers up to 1000	the nearest the nearest the nearest		
		line, and use the	signs.	Read and write numbers up to 1000	any	including through zero.	
		language of: equal to,	Use $<, >$ or $=$ to complete.	in numerals and in words.	number		
		more than, less than			to the		
		(fewer), most, least.		Solve number problems and	nearest 10, 100 or 1000.		
				practical problems involving these			
				ideas.	Solve number and practical problems		
					that involve all of the above and with		
				Count from 0 in multiples of 4, 8, 50	increasingly large positive numbers.		
		Alban III. III		and 100.			
					Count backwards through zero to		
		$\bigcirc$	the sheet when and such as		include negative numbers.		
		$\square$	Use place value and number		Complete the number lines $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
		and the	facts to solve problems.				
			Counting them af 2, 2, 1, 1, 1		-4 0 1 Fill in the missing temperatures on the thermometers		
			Count in steps of 2, 3 and 5 from				
		Use equipment from your classroom to compare the amounts using >, < or =	0, and in tens from any number,				
			forward and backward.				
			Complete the number sequences.		<b>5</b> -0		
			15				
		Complete the stem sentences and statements. 62 is than 55 but than 70					
		62 is than 55 but than 70					
			0 18				
Additio	Using quantities	Represent and use	Recall and use addition and	Add numbers mentally, including: a	Add numbers with up to 4 digits using	Add numbers mentally with	Solve addition multi step problems
n	and objects, they	number bonds and	subtraction facts to 20 fluently,	three-digit number and ones; a	the formal written methods of	increasingly large numbers.	in contexts, deciding which
	add and subtract	related subtraction	and derive and use related facts	three-digit number and tens; a three	columnar addition where appropriate.		operations and methods to use and
	two single-digit	facts within 10 then 20.	up to 100.	digit number and hundreds.		Add whole numbers with more than 4	why.
	numbers and		-	-		digits, including using formal written	Missing digits:
·		•			•		



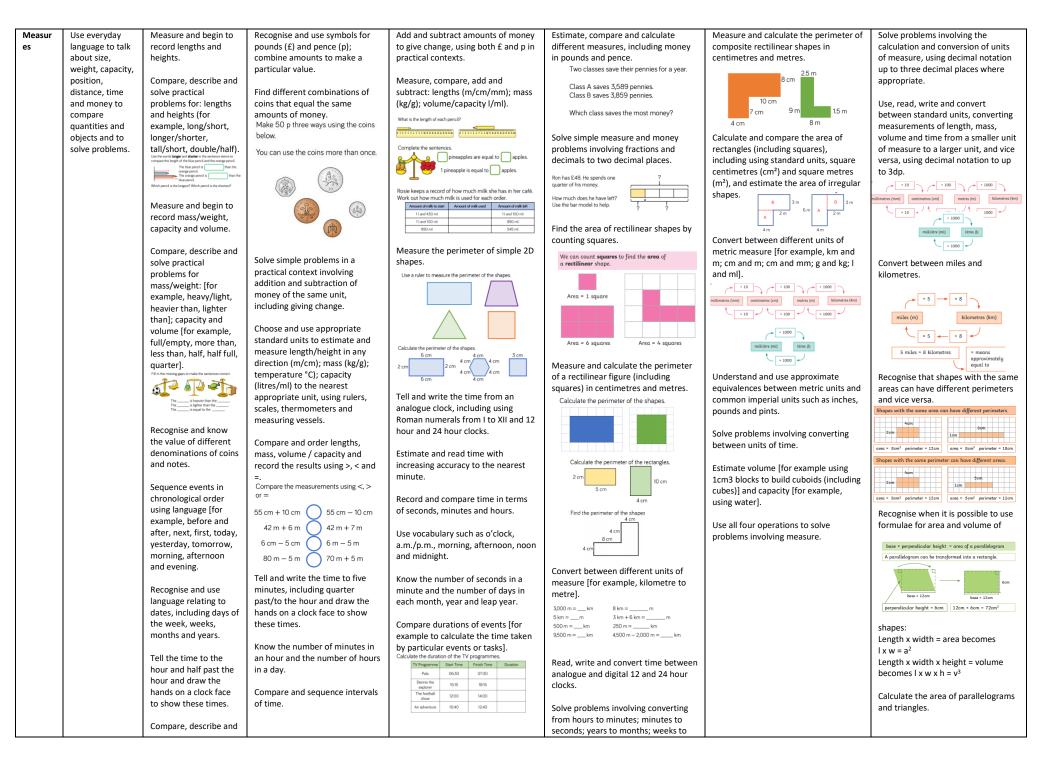
Subtract	Using quantities and objects, they add and subtract two single-digit numbers and count on or back to find the answer. e.g. 6 subtract 2		Using concrete materials, complete the missing boxes. $10 \text{ less } \text{ Number } 10 \text{ more } \frac{1}{2}$ $2 \text{ loss } 22$ $37$ $10 \text{ loss } 237$ $2 \text{ loss } 237$ $10 \text{ loss } 277$ Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit numbers. 22 - 7 = 10  loss  200  loss  20	Subtract numbers mentally, including: a three-digit number and ones; a three-digit number and tens; a three digit number and hundreds. Subtract numbers with up to three digits, using formal written methods of columnar subtraction. 553 - 32 = 521 $\overrightarrow{F} = 32 = 521$ $\overrightarrow{F} = 32 = 52$	Subtract numbers with up to 4 digits using the formal written methods of columnar subtraction where appropriate. $E_{234-255==457-2341}$ $E_{234-255==-262-2551}$ $6531-2385=4146$ $= \frac{6}{4} \frac{5}{12} \frac{11}{2}$ $= \frac{2}{3} \frac{8}{5} \frac{5}{4}$ Estimate and use inverse operations to check answers to a calculation. Solve subtraction two step problems in contexts, deciding which operations and methods to use and why.	Subtract numbers mentally with increasingly large numbers. Subtract whole numbers with more than 4 digits, including using formal written methods (columnar subtraction). $3 \frac{17}{47}$ 7 2 6 - 2 8 7 2 3 1 9 0 0 3 Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. Solve subtraction multi step problems in contexts, deciding which operations and methods to use and why.	Solve subtraction multi step problems in contexts, deciding which operations and methods to use and why. $-\frac{2 \cdot 6 \cdot 5}{2 \cdot 3 \cdot 6 \cdot 5}$ Perform mental calculations, including with mixed operations and large numbers. Use their knowledge of the order of operations to carry out calculations involving the four operations. Solve problems involving addition, subtraction, multiplication and division. Use estimation to check answers to calculations and determine in the context of a problem, an appropriate degree of accuracy.
Multipli cation	Solve problems, including doubling, halving and sharing Double 5 Double 5 Non-statutory Count in 2s, 5s	Count in multiples of twos, fives and tens. 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: i.e. lots of 3 =	Recall and use multiplication facts for the 2, 5 and 10 times tables, including recognising odd and even numbers. Calculate mathematical statements for multiplication within the multiplication tables and write them using the multiplication (x) and equals (=) sign. Solve problems involving multiplication using materials,	Use the multiplication tables they know to write and solve multiplication calculations including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods.	Recall and use multiplication and division facts for multiplication tables up to 12 × 12. Count in multiples of 6, 7, 9, 25 and 1000. Use place value, known and derived facts to multiply mentally, including multiplying by 0 and 1; multiplying together three numbers. $3 \times 2 \times 4 = 3 \times 8 =$	Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers. Factors of 2 numbers. Factors of 64. $2  \frac{3}{2} \times \frac{1}{2}$ $\frac{5}{5} \times \frac{1}{8}$ $\frac{6}{5} \times \frac{1}{8}$ Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.	Multiply multi-digit number up to 4 digits by a 2-digit number using the formal written method of long multiplication. $\begin{array}{r} 2 \ 7 \ 4 \ 1 \\ \hline \underline{x \ 6 \ 6} \\ \hline 1 \ 6 \ 4 \ 4 \ 6 \\ \hline 1 \ 6 \ 4 \ 4 \ 6 \\ \hline \underline{1 \ 6 \ 4 \ 4 \ 6 \ 0} \\ \hline \underline{1 \ 8 \ 0 \ 9 \ 0 \ 6} \\ \hline \overline{x \ 5} \end{array}$ Perform mental calculations, including with mixed operations and

	and 10s	There are two bowls	arrays, repeated addition, mental				large numbers.
		with three apples in	methods and multiplication facts,	(23) t o	• • • • • • • • • • • • • • • • • • •	Establish whether a number up to 100	large humbers.
		each. How many	including problems in contexts.	$20$ $3$ $\times$ $2$ $3$ $\times$ $2$	2 × 4 =	is a prime and recall prime numbers up	Identify common factors, common
	5 10 15 20	apples are there altogether?	Show that the multiplication of	6		to 19.	multiples and prime numbers.
		utogether.	two numbers can be done in any	+ 4 0	- 2 × 4 =	Multiply numbers up to 4 digits by a	THE GREATEST FACTOR I, 2, 4
			order (commutative) and division		Solve problems involving multiplying	one or two digit number using a formal	
			of one number by another	Solve problems, including missing	and adding, including using the	written method, including long	THE LEAST 2 ( 9.17 5 19.21
		🍅 🍅 🍅	cannot.	number problems, involving multiplication and division, including	distributive law to multiply two digit numbers by one digit, integer scaling	multiplication for two digit numbers.	COMMON MULTIPLE 3, 6, 5, 4, 4, 6, 6, 21,
		i i i i i i i i i i i i i i i i i i i	5x3=	positive integer scaling problems	problems and harder correspondence		Common multiples of 2 and 3
				and correspondence problems in	problems such as n objects are	1342 x 18	Multiples of 2 Multiples of 3
				which n objects are connected to m objectives.	connected to m objects. 8x26=	13420	
					10 × 8 = 80 10 × 8 = 6 × 8 =	10736	$\left(\begin{array}{cccc} 2 & 4 \\ 8 & 10 \\ 14 & 16 \end{array} \right) \left(\begin{array}{c} \frac{6}{12} \\ 18 \end{array} \right) \left(\begin{array}{c} 3 & 9 \\ \frac{15}{21} \end{array} \right)$
						24156	
					0 80 160	Multiply numbers mentally, drawing	
			3x5=		Hundreds Tens Ones H T O	upon known facts.	Use squared and cubed numbers.
					C       C		$6^2 = 36 (6x6=36)$
			AAA			Multiply whole numbers and those involving decimals by 10, 100 and	6 <sup>3</sup> = 216 (6x6x6=216)
			ŎŎŎ			1,000.	Use their knowledge of the order of
					Recognise and use factor pairs and		operations to carry out calculations
					commutativity in mental calculations. Here is an example of a factor bug for 12	Recognise and use square numbers and cube numbers, and the notation for	involving the four operations.
			AAA		Complete the factor bug for 36	squared $(^2)$ and cubed $(^3)$ .	Solve problems involving addition,
						8	subtraction, multiplication and
					3 4 6 9	3 <sup>3</sup> 3×3×3 27 4 <sup>3</sup>	division.
					Multiply two digit and three digit	5 <sup>3</sup> 5×5×5 6×6×6	
					numbers by a one digit number using	Solve problems involving multiplication	Use estimation to check answers to calculations and determine in the
					formal written layout.	including using their knowledge of	context of a problem, an appropriate
					35	factors and multiples, squares and cubes.	degree of accuracy.
					× 4 347		
					$120(30 \times 4)$ $\times$ 7	Solve problems involving addition,	
					$+ \frac{20}{140}(5 \times 4)$ 2 4 2 9 3 4	subtraction, multiplication and division and a combination of these, including	
						understanding the meaning of the	
						equals sign.	
Division	Solve problems, including	Solve one step problems involving	Recall and use division facts for the 2, 5 and 10 times tables,	Use the multiplication tables they know to write and solve division	Recall and use multiplication and division facts for multiplication tables	Divide numbers mentally, drawing upon known facts.	Divide numbers up to 4 digits by a 2- digit whole number using the formal
	doubling, halving	division, by calculating	including recognising odd and	calculations (with and without	up to $12 \times 12$ .	upon known lacts.	written method of long division.
	and sharing	the answer using	even numbers.	remainders) including for 2-digit		Divide numbers up to 4 digits by a one	0 3 1 8 <i>r</i> 5
	Half of 6	concrete objects, pictorial	Calculate mathematical	numbers by 1-digit numbers, using mental and progressing to formal	Count in multiples of 6, 7, 9, 25 and 1000.	digit number using the formal written method of short division and interpret	20 6 3 6 5
		representations and	statements for division within	written methods.	1000.	remainders appropriately for the	$\frac{-60}{36}$
	***	arrays with the support	the multiplication tables and	Step 1         Step 2         Step 3           Build the number and show the Share the tens         Exchange the tens into ones and	Use place value, known and derived	context.	20
		of the teacher.	write them using the division (÷)	groups on the place value chart share the ones 94-4+ 94-4+ 94-4+ 94-4+23+2	facts to multiply and divide mentally,	3642 ÷ 3 =	_1 6 5 1 6 0
		Sharing:	and equals (=) sign.		including dividing by 1.		5
		How many apples are	Solve problems involving division		63 ÷ 3 =		Interpret remainders as whole
		in each bowl if I share 6	using materials, arrays, repeated		10 10 10 1 1 1		number remainders, fractions, or by
		apples between three bowls?	addition, mental methods and division facts, including problems		10 10 10	Th H T 1s	rounding as appropriate for the context.
			in contexts.	Solve problems, including missing		1         2         1         4           3         3         6         4         12	
			00000	number problems, involving			
			Arrays:	multiplication and division, including positive integer scaling problems			
		Grouping:		and correspondence problems in		8 6 r 2	
				which n objects are connected to m		5 4 3 2	

		Put these counters into groups of two. How many groups are there? 0 2 4 6	Show that the multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.	objectives. Put 24 opples into 8 equal groups.	Jack is dividing Bd by 4 using place value counter.       Image: Counter of the second count	Divide whole numbers and those involving decimals by 10, 100 and 1,000         Multiplying and Dividing by 10, 100 and 1000         Image: state	496 ÷ 11 becomes $4 5 r 1$ $1 1 \sqrt{4 9 5 6}$ Answer: $45 \frac{1}{11}$ Divide numbers up to 4 digits by a 2-digit number using the formal written method of short division, interpreting remainders according to the context. Use factor pairs to support division of up to 4 digits by a 2-digit number. 9,840 ÷ 24 = Factors of 24 are 12 and 2. 9,840 ÷ 2 = 4,920 4,920 ÷ 12 = 410 Perform mental calculations, including with mixed operations and large numbers. Use their knowledge of the order of operations to carry out calculations involving the four operations. Solve problems involving addition, subtraction, multiplication and division.
							Use estimation to check answers to calculations and determine in the context of a problem, an appropriate degree of accuracy.
Times Tables			Recall and use multiplication and division facts for the 2, 5 and 10 times tables.	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.	Recall and use multiplication and division facts for multiplication tables up to 12 × 12.	No additional requirements – facts to 12 x 12 should be fully secured.	No additional requirements – facts to 12 x 12 should be fully secured.
Fraction s	Solve problems, including doubling, halving and sharing Half of 6 ****	Recognise, find and name a half as one of two equal parts of an object, shape or quantity. Find half of the sheep. There are sheep. Half of is Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity. Compare, describe and solve practical	times tables. Recognise, find, name and write fractions 1/3, ½, 2/4 and ½ of a length, shape, set of objects or quantity. Which pictures show $\frac{1}{2}$ ? Write simple fractions for example, ½ of 6 = 3 and recognise the equivalence of 2/4 and ½. $\frac{1}{2}$ of 12 = $\frac{1}{4}$ of 12 = $\frac{1}{4}$ of 20 = $\frac{1}{4}$	multiplication tables.Count up and down in tenths;recognise that tenths arise fromdividing an object into 10 equal partsand in dividing one digit numbers orquantities by 10.Three tenths $\frac{3}{10}$ Three tenths $\frac{3}{10}$ Recognise and use fractions asnumbers: unit fractions and non-unitfraction and non-unitfractions and non-unit	up to 12 × 12. Recognise and show (using diagrams) families of common equivalent fractions. $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{7}$	Compare and order fractions whose denominators are multiples of the same number. $\frac{1}{2} = \frac{4}{8}$ Identify, name and write equivalent fractions of a given fraction, represented visually including tenths and hundredths. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 as a mixed number [for example $\% + \% = \frac{6}{5} = 1\%$ ]. Add and subtract fractions with the same denominator and denominators that are multiples of the same number.	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. $\begin{array}{r} 4\\ 8\\ 12\\ -2\\ 3\\ 12\\ -3\\ -4\end{array}$ Compare and order fractions, including fractions > 1 Common <i>denominator</i> to compare $\frac{5}{6}$ ; and $\frac{3}{4}$ . Multiples of 6: 6, 12, 18, 24 Multiples of 4: 4, 8, 12, 16, 12 is the LCM of 4 and 6 $\frac{5}{6} = \frac{10}{12}$ $\begin{array}{r} 3\\ 4\\ -9\\ 12 \end{array}$



			1		1	
Decimal	Recognise and know	Recognise and use symbols for	Add and subtract amounts of money	Count up and down in hundredths;	Read, write, order and compare	Identify the value of each digit in
s	the value of differen		to give change, using both £ and p in	recognise that hundredths arise when	numbers with up to three decimal	numbers given to three decimal
	denominations of c		practical contexts.	dividing an object by one hundred and	places.	places and multiply numbers by 10,
	and notes.	particular value.		dividing tenths by ten.		100 and 1000 giving answers up to 3
			?		Recognise and use thousandths and	decimal places (dp).
	Use < = > to compar		£2 and 35p 🕘 🔛 🛞 🚇	$\dot{O} = \frac{1}{100} = \frac{2}{100}$	relate them to tenths, hundredths and	Tessands         Henfreis         Tess         Ones         tests         Ausfreitis         ticsandis              1         3         5         1
	the amounts:			52 54	decimal equivalents.	1 3 5 1
	6666			100 100	0.394	1 3 5 1
			$\bigcap$		0.004	
	889990			Shaded Tenths Hundredths	= 3 tenths, 9 hundredths and 4	Multiply one digit numbers with up
			$\angle$	20 squares $\frac{2}{10}$ $\frac{20}{100}$	thousandths	to 2dp by whole numbers.
						3 4 5
				Recognise and write decimal	$=\frac{3}{10}+\frac{9}{100}+\frac{4}{1000}$	× 3
			8p 20p	equivalents of any number of tenths		1 0 3 5
			ap 20p	or hundredths.	= 0.3 + 0.09 + 0.004	
			£1 and 72p £1 and 80p £2	Find the effect of dividing a one or	Round decimals with two decimal	Use written division methods in
				two digit number by 10 or 100,	places to the nearest whole number	cases where the answer has up to
				identifying the value of the digits in	and to one decimal place.	two decimal places.
				the answer as ones, tenths and	piece.	
				hundredths.	Solve problems involving number up to	8.12 ÷ 4
					three decimal places.	
				Tens Ones Tenths Hundredths		2 0 3
					Recognise the per cent symbol (%) and	4 8 X 2
				To divide the number by 10, we move the	understand that per cent relates to	
				counters one column to the right. What is the value of the counters now?	'number of parts per hundred', and	Solve problems which require
				Solve simple measure and money	write percentages as a fraction with	answers to be rounded to specified
				problems involving fractions and	denominator 100, and as a decimal.	degrees of accuracy.
				decimals to two decimal places.		
				How long is the ribbon?	Solve problems which require knowing	Solve problems involving the
				how tong is the noon.	percentage and decimal equivalents of	calculation of and the use of
				$\left  \begin{array}{c} + + + + + + + + + + + + + + + + + + +$	1/2, 1/4, 1/5, 3/5, 4/5 and those fractions with a	percentages for comparison.
				0 1	denominator of a multiple of 10 or 25.	Percentages.
				The ribbon is metres long.		For example 15% of 360 = 54
					Multiply and divide whole numbers and	10% of 360 = 36
				Convert between different units of	those involving decimals by 10, 100 and	5% of 360 = 18
				measure [for example, kilometre to	1000.	36 + 18 = 54
				metre].	Use all four operations to solve	Pocall and use equivalences
				Compare numbers with the same	problems involving measure [for	Recall and use equivalences between simple FDP including in
				Compare numbers with the same	example, length, mass, volume, money]	different contexts.
				number of decimal places up to two decimal places.	using decimal notation, including	unterent contexts.
				decimal places.	scaling.	
				Round decimals with one decimal		
				place to the nearest whole number.		
				place to the nearest whole number.		
				Recognise and write decimal		
				equivalents to $\frac{1}{4}$ , $\frac{1}{2}$ and $\frac{3}{4}$ .		
				Find the effect of dividing a one or		
				two digit number by 10 or 100,		
				identifying the value of the digits in		
				the answer as ones, tenths and		
				hundredths.		
L	1					



		solve practical problems for time [for example, quicker, slower, earlier, later]. Tommy is drinking a bottle of orange juice. Match the words to the bottles to order them: finally first next Measure and begin to record time (hours, minutes, seconds).	Circle the longest time. 1 hour 40 minutes 1 Half an hour 55 minutes 1 There outleter of an hour 35 minutes 35 minutes		days.		base × perpendicular height + 2 = area of a triangle
Geomet ry	Explore characteristics of everyday objects and shapes and use mathematical language to describe them. Recognise, create and describe patterns.	Recognise and name common 2 D shapes, including: (e.g. rectangles (including squares), circles and triangles). Which is the odd one out in each group?	Identify and describe the properties of 2 D shapes, including the number of sides and line symmetry in a vertical line. Complete the table. Transfer Tran	Recognise angles as a property of shape or a description of a turn. There are no a sporer tanded in the form of a turn. There are no a sporer tanded in the form of a turn. The spore of the spore tanded in the form of the turn of the spore of turn and form a complete turn; identify whether angles make a half turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle. The spore of turn of the spore of turn and pairs of perpendicular and pairs of perpendicular and parallel lines. Draw 2 D shapes and make 3 D shapes in different orientations and describe them. The spore of turn of the spore of turn and spore turn of the spore of turn and pairs of the spore of turn and pairs. Draw 2 D shapes and make 3 D shapes in different orientations and describe them.	Identify acute and obtuse angles and compare and order angles up to two right angles by size.         Sort the angles into acute, obtuse and right angles.         Sort the angles into acute, obtuse and right angles.         Identify acute and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.         Use the trave to describe the shape.         for rades       pairs of parallel sides         Juggen       1 pair of parallel sides         Identify lines of symmetry in 2D shapes presented in different orientations.         Sort the shapes into the table.         Totage a simple symmetric figures with respect to a specific line of symmetry.         Complete a simple symmetric figures with respect to a specific line of symmetry.         Describe positions on a 2D grid as coordinates in the first quadrant.         Write out the coordinates that spell your name.	Identify 3D shapes, including cubes and other cuboids, from 2D representations. Use the properties of rectangles to deduce related facts and find missing lengths and angles. Distinguish between regular and irregular polygons based on reasoning about equal sides and angles. <b>Regular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregular</b> <b>Irregula</b>	Draw 2D shapes using given dimensions and angles. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons. $a + b + c + d = 360^{\circ}$ $a + b + c = 180^{\circ}$ Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. 127 Angles around a point diges around a point of the straight line of the straight line populate and straight line, or are vertically opposite, and find missing angles. 127 Angles around a point diges around a point di

		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 anti-clockwise).         Match the turn to the description.         Image: Strain and turn         Image: Strain and sequences.         Image: Strain and sequences.		Plot specified points and draw sides to complete a given polygon. i.e. plot 2 more points to make a square. Describe movements between positions as translations of a given unit to the left/ right and up/ down.	appropriate language, and know that the shape has not changed.	
Statistic S		<section-header></section-header>	Interpret and present data using bar charts, pictograms and tables.	<text><text><text><text><text><text></text></text></text></text></text></text>	Solve comparison, sum and difference problems using information presented in a line graph. Complete, read and interpret information in tables including timetables.	Interpret and construct pie charts and line graphs and use these to solve problems. There are 200 applies have the many pupils close ach hadby? Calculate the mean as an average. For example, here are the scores of 5 netball matches: 3, 6, 4, 4, 3 To find the mean average, add all the scores up (20) and divide by the number of scores (5). $20 \div 5 = 4$ The mean average is 4.
Additio nal areas of study	-	-	-	-	-	Algebra: Use simple formulae. Input +5 × 2 → Output Generate and describe linear number sequences.

			Term 1 4 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3
			Express missing number problems algebraically.
			p = 2a + 5 $c = 10 - p$
			Find the value of $c$ when $a = 10$
			Find pairs of numbers that satisfy an equation with two unknowns.
			a + b = 6         a b           There are lots of possible outcons to
			Enumerate possibilities of combinations of two variables.
			2g + w = 15 g and w we positive whole numbers. Wate down all the possible values for g and w, show each of them in a bar model. 15 g g g w
			<b>Ratio:</b> Solve problems involving the relative sizes of two quantities where
			missing values can be found by using integer multiplication and division facts.
			To use the ingredients for 1 people, you have entities 100 gr d strawberries 200g d grapherries 200g d grapheries 200g d grapherries 200g d grapherries 200g d grapheries 20
			Solve problems involving similar shapes where the scale factor is known or can be found.
			B     Shape A has been enlarged by a scale factor of 2 to make Shape B.       A     Shape B.       B     Shape B.       Shape B.     Shape B.       Shape B.     Shape B.       B     Shape B.
			Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.