## Mathematics Teaching Sequence – Year 3

Children should engage with appropriate number and practical problems throughout each topic.

Statements highlighted in yellow have been identified as 'ready to progress' objectives: key concepts which are essential building blocks for the next steps in learning. These objectives must be embedded across the year so that children are fluent. Resources to support teaching of these specific objectives can be found here: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\_data/file /1017683/Maths guidance KS 1 and 2.pdf

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https://www.ncetm.org.uk/classroom-resources/exemplification-of-ready-to-progress-criteria/

Year 3		
Autumn Term		Key vocab for topic
N	umber and Place value	hundreds
•	Count from 0 in multiples of 100	tens
•	Identify, represent and estimate numbers	ones
	using different representations (part whole,	place value
	estimate on number line, partition)	more
•	Recognise the place value of each digit in a	less
	three-digit number (partition).	greater than
•	Know that ten 10s are equivalent to 100.	less than
	Apply this to work out how many 10s there	compare
	<mark>are in other 3 digit multiples of 10.</mark>	equal to
•	Read and write numbers up to 1000 in	order
	numerals and in words	estimate
•	Reason about the location of any 3 digit	exchange
	number, including finding the previous and	partition Nultiples
	next multiple of 10 or 100 from a given	Multiples
	number (100 or 10 more or less) and crossing	Digits
	hundreds and tens boundaries, eg 10 less than	Estimate
	<mark>204.</mark>	
•	Compare and order numbers up to 1000	
•	Count from zero in multiples of 50.	
Discourse		
Place v	alue review	
Additi	on and subtraction	
(Inclue	le appropriate problem solving and reasoning	more than
using l	earnt number facts, place value and methods	less than
throug	hout e.g. missing numbers, 2 step word	digits
proble	ms, explain and prove)	addition/add
•	Add and subtract a three digit number and	subtraction/subtract/take away
	ones mentally	combine
<ul> <li>Add and subtract a 3 digit number and 10s mentally</li> </ul>		total
		mental
•	Add and subtract a 3 digit number and 100s	mentally
	mentally	column
•	Add numbers with up to 3 digits:	exchange
		i place value

Lice concrete and nictorial recourses to	bundrods
-Ose concrete and pictorial resources to	tons
disite with set on sains the tang (hundred)	tens
digits without crossing the tens/hundreds	ones
boundary (to develop conceptual	smallest
understanding)	altogether
-Use formal written method of column	sum
addition without crossing tens/hundreds	calculation
boundary	find the difference
-Use concrete and pictorial resources to	Inverse
introduce conceptual understanding methods	Commutative
of addition with up to 3 digits <b>crossing the</b>	
tens/hundreds houndary (to develop	
concentual understanding)	
Collected and erstanding)	
<ul> <li>Calculate the complements to 100 e.g. 46 + ? =</li> </ul>	
100.	
<ul> <li>Use formal written method of column addition</li> </ul>	
crossing tens/hundreds boundary	
<ul> <li>Scale known addition number facts by 10</li> </ul>	
<mark>e.g. 8 + 6 = 14 so 80 + 60 = 140.</mark>	
<ul> <li>Subtract numbers with up to 3 digits:</li> </ul>	
-Use concrete and nictorial resources to	
introduce methods of subtraction with up to 3	
digits without exchange (to develop	
concentual understanding)	
Use formal written mathed of column	
-Ose formal written method of column	
subtraction without exchange	
-Use concrete and pictorial resources to	
introduce conceptual understanding of	activents
subtraction with up to 3 digits with exchange	estimate
<mark>-Use formal written metho</mark> d of column	Inverse
subtraction with exchange	approximate/ly
<ul> <li>Scale known addition number facts by 10 to</li> </ul>	nearest (hundred, ten)
<mark>subtract e.g. 3 + 6 = 9 so 90 – 60 = 30</mark>	part/whole
<ul> <li>Use inverse operations to check answers to</li> </ul>	Number bonds
addition and subtraction calculations applying	
knowledge of the commutative law	
Review - addition and subtraction deciding most	
efficient method (mental/formal)	Multiplication/ times/ lots of/ groups
	of/product/repeated addition
Multiplication /division	Division/share equal/repeated
ויועונוסווכמנוסה/ מועוצוסה	subtraction
	Divisor
<ul> <li>Count from zero in multiples of 3, 4 and 8</li> </ul>	Share equally
Recognise when groups are equal/unequal	Arroy
To know that multiplication is repeated addition	Commutative
in equal groupings	Commutative
<ul> <li>Recall the multiplication facts for the 3 times</li> </ul>	Inverse 
table	Estimate
	Remainder

• To know that division is splitting a whole number	Scaling
into groups of equal size	
<ul> <li>Recall the division facts for the 3 times table</li> </ul>	
<ul> <li>Recall the multiplication facts for the 4 times</li> </ul>	
table	
<ul> <li>Recall the division facts for the 4 times table</li> </ul>	
<ul> <li>Recall the multiplication facts for the 8 times</li> </ul>	
table	
<ul> <li>Recall the division facts for the 8 times table</li> </ul>	
• To know that not all numbers can be divided	
equally and this might result in a remainder	
<ul> <li>Use knowledge of 2, 5, 10, 3, 4 and 8 times</li> </ul>	
tables (multiplication and corresponding division	
facts) to solve problems including with simple	
remainders.	
Measures (lengths)	C
<ul> <li>To know that there are 10mm in 1cm</li> </ul>	Mm
<ul> <li>To know that there are 100cm in 1m</li> </ul>	Milli
<ul> <li>Measure (read) lengths in millimetres,</li> </ul>	Exchange
centimetres and metres	Fauivalent
<ul> <li>To compare and order lengths when</li> </ul>	Foual to
represented in different ways (eg 23cm and	Compare
34mm)	Order
<ul> <li>To add and subtract units of length</li> </ul>	Greater than
	Less than
	Standard units
<u>Spring Term</u>	Fallerate
	Estimate
Place value review and approximation	lotal Subtract
Entrancia de la companya de la transmissión de la companya de la companya de la companya de la companya de la c	
<ul> <li>Estimate the answer to addition and subtraction using concreation (7 + 21 in</li> </ul>	Add
subtraction using approximation 67 + 31 is	loverse
approximately 100	Approximately
	Approximately
Multiplication and division	
To understand when a statement represents a	Multiplication/times/lots of/groups
multiplication or a division problem and show	of/product/repeated addition
and show how these are related	Division/share equal/repeated
<ul> <li>Multiply a 2-digit number by a 1 digit number</li> </ul>	subtraction
using known facts eg 23 x 3	Divisor
3x3 =9	Share equally
$20 \times 3 = 60$	Array
23 x 3 = 69	Commutative
<ul> <li>Apply place value knowledge to known facts</li> </ul>	Inverse
e.g. scale number facts by 10.	Estimate
$E.g. 3 \times 4 = 12;$	Remainder
30 x 4= 120	Scaling

	12 ÷ 4 = 3	Column multiplication
	120 ÷ 4 = 30	Short multiplication
•	Multiply a 2 digit number by a 1 digit number	Partitioning
	using expanded method	5
•	Multiply a 2 digit number by a 1 digit number	
	using compact method (short multiplication)	
•	Use the inverse to check multiplication and	
	division problems	
•	Divide 2 digit numbers by 1 digit numbers	
	using partitioning e.g example 69 ÷ 3	
	60 ÷ 3 = 20	
	9÷3+3	
	69 ÷ 3 = 23	
٠	Use partitioning/rearranging and knowledge	
	of known multiples to solve 2 digit divided by	
	1 digit calculations (see calculation policy)	
Deview		
Review		
Statisti	cs	
•	To know that a pictogram represents data in	Pictogram
	pictures and that a picture can represent more	Data
	than 1	Represent
٠	To interpret data on a pictogram (including	Most common
	using keys when the picture represents more	Least common
	than 1) (including answering questions which	Scale Par chart
	uses addition and subtraction (how many	
	more))	Present
•	To present data in a pictogram including when	Table
	the picture represents more than 1)	Tally
•	Read scales of 2, 5, 10 and 4 Intervals.	Compare
•	in a bar chart including in scales of 2 5, 10	X-axis
	and $A$	Y-axis
•	To interpret information presented in a bar	Frequency
-	chart	Carrol diagram
•	To present information in a bar chart.	Venn diagram
	selecting appropriate scales	
	0 11 1	
Fractio	ns	Fraction
•	Interpret and write proper fractions to	Denominator
	represent 1 or parts of a whole (that is divided	Numerator
	into equal parts) by:	Equal
•	Knowing, recognising and writing a unit	Equivalent
	fraction of a whole shape)	Quarters
•	Finding unit fraction of a whole set of	Halves
	objects/amount/quantities using known	Unit fraction
-	To know recognice and write non unit	Non-unit fractions
•	fractions of a whole shape	Amount
	nactions of a whole shape	Whole

•	To find a non-unit fraction of a whole set of	Tenth
	objects/ amount	
•	To make a whole using unit and non-unit	
	fractions with the same denominator	
•	Recognise that tenths arise from dividing an	
	object into 10 equal parts	
•	Count up and down in tenths up to and	
	bevond a whole	
•	, Recognise that tenths arise from dividing 1	
	digit numbers or quantities by 10.	
	representing this in a division sentence	
Fractio	ns	
•	Recognise and show, using diagrams,	Fraction
	equivalent fractions with small denominators	Denominator/Numerator
•	Reason about the location of any fraction	Equal/ Equivalent
	within 1 by comparing and ordering unit	Quarters
	fractions	Halves
•	Reason about the location of any fraction	Unit fraction
	within 1 by comparing and ordering fractions	Amount
	with the same denominator.	Amount
•	Add and subtract fractions with the same	Tenth
	denominator within one whole	rentin
•	Solve problems involving fractions	
Review	1	
Review Summe	r er Term	
Review Summe Money	r er Term	
Review Summ Money	<b>r Term</b> Know that total of money can be shown in	Pounds
Review Summ Money	r er Term Know that total of money can be shown in notes and coins and recorded in pounds and	Pounds Pence
Review Summ Money	er Term Know that total of money can be shown in notes and coins and recorded in pounds and pence	Pounds Pence Convert
Review Summ Money	r Term Know that total of money can be shown in notes and coins and recorded in pounds and pence Find total of money shown in notes and coins	Pounds Pence Convert Order
Review Summ Money	r Term Know that total of money can be shown in notes and coins and recorded in pounds and pence Find total of money shown in notes and coins and record in pounds and pence.	Pounds Pence Convert Order Add
Review Summ Money •	er Term Know that total of money can be shown in notes and coins and recorded in pounds and pence Find total of money shown in notes and coins and record in pounds and pence. Convert between pounds and pence (e.g. five	Pounds Pence Convert Order Add Subtract
Review Summ Money •	r Term Know that total of money can be shown in notes and coins and recorded in pounds and pence Find total of money shown in notes and coins and record in pounds and pence. Convert between pounds and pence (e.g. five 20p coins = £1, 20 5p coins = £1	Pounds Pence Convert Order Add Subtract Change
Review Summ Money •	<pre>know that total of money can be shown in notes and coins and recorded in pounds and pence Find total of money shown in notes and coins and record in pounds and pence. Convert between pounds and pence (e.g. five 20p coins = £1, 20 5p coins = £1 Add and subtract amounts of money using</pre>	Pounds Pence Convert Order Add Subtract Change Round
Review Summ Money •	<pre>r Term r Know that total of money can be shown in notes and coins and recorded in pounds and pence Find total of money shown in notes and coins and record in pounds and pence. Convert between pounds and pence (e.g. five 20p coins = £1, 20 5p coins = £1 Add and subtract amounts of money using pound and pence</pre>	Pounds Pence Convert Order Add Subtract Change Round Estimate
Review Summ Money • •	<pre>k</pre> <pre>r Term</pre> <pre>Know that total of money can be shown in notes and coins and recorded in pounds and pence Find total of money shown in notes and coins and record in pounds and pence. Convert between pounds and pence (e.g. five 20p coins = £1, 20 5p coins = £1 Add and subtract amounts of money using pound and pence Solve addition and subtraction money</pre>	Pounds Pence Convert Order Add Subtract Change Round Estimate Cost
Review Summ Money • •	<pre>k</pre> <pre>r Term </pre> Know that total of money can be shown in notes and coins and recorded in pounds and pence Find total of money shown in notes and coins and record in pounds and pence. Convert between pounds and pence (e.g. five 20p coins = £1, 20 5p coins = £1 Add and subtract amounts of money using pound and pence Solve addition and subtraction money problems including giving change	Pounds Pence Convert Order Add Subtract Change Round Estimate Cost Decimal point
Review Summ Money • •	er Term Know that total of money can be shown in notes and coins and recorded in pounds and pence Find total of money shown in notes and coins and record in pounds and pence. Convert between pounds and pence (e.g. five 20p coins = £1, 20 5p coins = £1 Add and subtract amounts of money using pound and pence Solve addition and subtraction money problems including giving change	Pounds Pence Convert Order Add Subtract Change Round Estimate Cost Decimal point Calculate
Review Summ Money	Know that total of money can be shown in notes and coins and recorded in pounds and pence Find total of money shown in notes and coins and record in pounds and pence. Convert between pounds and pence (e.g. five 20p coins = £1, 20 5p coins = £1 Add and subtract amounts of money using pound and pence Solve addition and subtraction money problems including giving change	Pounds Pence Convert Order Add Subtract Change Round Estimate Cost Decimal point Calculate
Review Summ Money • • • • • • • • • • • • •	er Term Know that total of money can be shown in notes and coins and recorded in pounds and pence Find total of money shown in notes and coins and record in pounds and pence. Convert between pounds and pence (e.g. five 20p coins = £1, 20 5p coins = £1 Add and subtract amounts of money using pound and pence Solve addition and subtraction money problems including giving change and properties of shape	Pounds Pence Convert Order Add Subtract Change Round Estimate Cost Decimal point Calculate
Review Summ Money • • • • • • • • • • • • •	<b>er Term</b> Know that total of money can be shown in notes and coins and recorded in pounds and pence Find total of money shown in notes and coins and record in pounds and pence. Convert between pounds and pence (e.g. five 20p coins = £1, 20 5p coins = £1 Add and subtract amounts of money using pound and pence Solve addition and subtraction money problems including giving change and properties of shape Identify and draw horizontal and vertical lines	Pounds Pence Convert Order Add Subtract Change Round Estimate Cost Decimal point Calculate Horizontal/ Vertical Perpendicular/ Parallel
Review Summ Money • • • • • • • • • •	<b>Frem</b> Know that total of money can be shown in notes and coins and recorded in pounds and pence Find total of money shown in notes and coins and record in pounds and pence. Convert between pounds and pence (e.g. five 20p coins = £1, 20 5p coins = £1 Add and subtract amounts of money using pound and pence Solve addition and subtraction money problems including giving change <b>and properties of shape</b> Identify and draw horizontal and vertical lines Identify and draw pairs of perpendicular and parallel lines including finding there in 24	Pounds Pence Convert Order Add Subtract Change Round Estimate Cost Decimal point Calculate Horizontal/ Vertical Perpendicular/ Parallel 2d shape/3d shape
Review Summ Money • • • • Angles	<pre>r Term Know that total of money can be shown in notes and coins and recorded in pounds and pence Find total of money shown in notes and coins and record in pounds and pence. Convert between pounds and pence (e.g. five 20p coins = £1, 20 5p coins = £1 Add and subtract amounts of money using pound and pence Solve addition and subtraction money problems including giving change and properties of shape Identify and draw horizontal and vertical lines Identify and draw pairs of perpendicular and parallel lines, including finding these in 2d change</pre>	Pounds Pence Convert Order Add Subtract Change Round Estimate Cost Decimal point Calculate Horizontal/ Vertical Perpendicular/ Parallel 2d shape/3d shape Perimeter
Review Summ Money • • • • • • • • • • •	<b>Frem Frem</b> Know that total of money can be shown in notes and coins and recorded in pounds and pence Find total of money shown in notes and coins and record in pounds and pence. Convert between pounds and pence (e.g. five 20p coins = £1, 20 5p coins = £1 Add and subtract amounts of money using pound and pence Solve addition and subtraction money problems including giving change <b>and properties of shape</b> Identify and draw horizontal and vertical lines Identify and draw pairs of perpendicular and parallel lines, including finding these in 2d shapes Draw 2d shapes	Pounds Pence Convert Order Add Subtract Change Round Estimate Cost Decimal point Calculate Horizontal/ Vertical Perpendicular/ Parallel 2d shape/3d shape Perimeter Cm/ Mm
Review Summ Money • • • • • • • • • •	<b>Frem Frem</b> Know that total of money can be shown in notes and coins and recorded in pounds and pence Find total of money shown in notes and coins and record in pounds and pence. Convert between pounds and pence (e.g. five 20p coins = £1, 20 5p coins = £1 Add and subtract amounts of money using pound and pence Solve addition and subtraction money problems including giving change <b>and properties of shape</b> Identify and draw horizontal and vertical lines Identify and draw pairs of perpendicular and parallel lines, including finding these in 2d shapes Draw 2d shapes Measure the perimeter of cimple 2d chapter	Pounds Pence Convert Order Add Subtract Change Round Estimate Cost Decimal point Calculate Horizontal/ Vertical Perpendicular/ Parallel 2d shape/3d shape Perimeter Cm/ Mm Turn/Angles
Review Summ Money • • • • Angles • •	<b>Frem Frem</b> Know that total of money can be shown in notes and coins and recorded in pounds and pence Find total of money shown in notes and coins and record in pounds and pence. Convert between pounds and pence (e.g. five 20p coins = £1, 20 5p coins = £1 Add and subtract amounts of money using pound and pence Solve addition and subtraction money problems including giving change <b>and properties of shape</b> Identify and draw horizontal and vertical lines Identify and draw pairs of perpendicular and parallel lines, including finding these in 2d shapes Draw 2d shapes Recognise that angles are a property of shapes	Pounds Pence Convert Order Add Subtract Change Round Estimate Cost Decimal point Calculate Horizontal/ Vertical Perpendicular/ Parallel 2d shape/3d shape Perimeter Cm/ Mm Turn/Angles Right angle
Review Summ Money • • • • • • • • • • • •	<pre>k</pre> <pre>r Term </pre> Know that total of money can be shown in notes and coins and recorded in pounds and pence Find total of money shown in notes and coins and record in pounds and pence. Convert between pounds and pence (e.g. five 20p coins = £1, 20 5p coins = £1 Add and subtract amounts of money using pound and pence Solve addition and subtraction money problems including giving change  and properties of shape Identify and draw horizontal and vertical lines Identify and draw pairs of perpendicular and parallel lines, including finding these in 2d shapes Draw 2d shapes Recognise that angles are a property of shape or a description of turn	Pounds Pence Convert Order Add Subtract Change Round Estimate Cost Decimal point Calculate Horizontal/ Vertical Perpendicular/ Parallel 2d shape/3d shape Perimeter Cm/ Mm Turn/Angles Right angle Degrees

	Identify right angles and know that this is a	Half turn. Three quarter turn
•	quarter turn	Full/complete turn
_	Identify right angles in 2D shapes presented in	Greater than/Less than
•	different evientations	Symmetry/symmetrical
	December 2 right angles make a half turn	Classify
•	Recognise that 2 right angles make a nan-turn,	Regular/irregular
	three make three quarters of a turn and 4	Vertex/vertices
	make a complete turn	Faces / sides
•	Identify whether angles are greater or less	Acuto (obtuso
	than a right angle	Acute/Obluse
		Orientation
Review		
lime		
•	To know the number of seconds in a minute,	Seconds
	and the number of days in each month, year	Minutos
	and leap year.	Hours
•	Tell and write the time from a 12 hour	$\pi_{0}$ and $\pi_{1}$ hour clock
	analogue clock	Z4 Hour/12 Hour clock
•	Tell and write the time from a 12 hour	
	analogue clock using Roman Numerals	Amanogue
•	Tell and write the time from an analogue 24	Am/pm
	hour clock (using correct vocabulary of am,	10/past
	pm, morning, afternoon, noon and midnight)	Hall past
•	Estimate and read time with increasing	Quarter to/from
	accuracy to the nearest minute	
•	Compare duration of events (eg calculate the	Morning, noon, afternoon and midnight
	time taken by particular events or tasks)	Digital
•	Record and compare time in terms of seconds,	
	minutes and hours	
Statisti	cs - Tables	l able
•	Interpret information presented in a table	lally
	(including using addition and subtraction to	Interpret
	answer questions, comparing and ordering	Compare
	and working out duration)	Order
•	Present information in a table	Fractions
Review	,	
Measu	re - mass and capacity	
•	Know how to read a scale of different intervals	K - / -
•	To know that grams is a smaller measure of	Kg/g
	mass than kilograms and that there are 1000	Mass
	grams in a kilogram	Scales
•	Use scales to measure mass in grams and	Compare
•	kilograms	Smaller larger
-	Represent mass in kilograms and grams log	Millilitres and litres
•	1240 grams = 1kg and 240grams)	Capacity
•	Compare mass in kilograms and grams	
•	Solve mass problems using the 4 operations	

<ul> <li>Know that millilitres are a smaller measure than litres and that there are 1000ml in 1l.</li> <li>Measure in litres and millilitres using different scale intervals</li> <li>Represent capacity in litres and millilitres</li> <li>Compare capacity in litres and millilitres</li> <li>Solve capacity problems using the 4 operations</li> </ul>	
3d shanes	
<ul> <li>Recognise and describe properties of 3d shapes</li> <li>Recognise 3d shapes in different orientations and describe them</li> <li>Construct 3d shapes using eg using nets and modelling materials</li> </ul>	3d 2d Faces Vertices Nets Orientations
Yearly assess and review	

Facts (Declarative knowledge)	Processes (methods)
Number and Place value	Number and Place value
<ul> <li>Number and Place value         <ul> <li>Count from 0 in multiples of 100</li> <li>Identify numbers using different representations (part whole, estimate on number line, partition)</li> </ul> </li> <li>Addition and subtraction         <ul> <li>Know that concrete and pictorial can be used to aid addition and subtraction.</li> <li>Know that formal methods can be used for written addition and subtraction.</li> </ul> </li> </ul>	<ul> <li>Number and Place value <ul> <li>Count from 0 in multiples of 100</li> <li>Represent and estimate numbers using different representations</li> <li>Recognise the place value of each digit in a three-digit number (partition)</li> <li>Read and write numbers up to 1000 in numerals and in words</li> <li>Find 100 or 10 more or less than a given number (including crossing hundreds and tens boundaries, eg 10 less than 204)</li> <li>Compare and order numbers up to 1000</li> <li>Count in zeros in multiples of 50</li> </ul> </li> <li>Addition and subtraction <ul> <li>Add and subtract a three digit number and 100s/tens/ones mentally.</li> <li>Use concrete, pictorial then formal written method of addition up to 3 digits without (then with) crossing tens/hundreds boundary.</li> <li>Subtract (using concrete, pictorial and formal written method) up to 3 digits</li> </ul> </li> </ul>
Approximation and checking using addition and subtraction	without (then with) exchange. Approximation and checking using addition and subtraction
<ul> <li>Know that estimation and inverse operations can be used to check answers to addition and subtraction calculations.</li> </ul>	<ul> <li>Estimate the answer to addition and subtraction using approximation 67 + 31 is approximately 100</li> <li>Use inverse operations to check answers to addition and subtraction calculations.</li> </ul>
Multiplication/division	Multiplication/division
<ul> <li>Know when groups are equal/unequal</li> <li>To know that multiplication is repeated addition in equal groupings</li> <li>Recall the multiplication facts for the 3 times table</li> <li>Know that division is splitting a whole number into groups of equal size</li> <li>Recall the multiplication and division facts for the 3,4 and 8 times table</li> </ul>	<ul> <li>Count from zero in multiples of 3, 4 and 8</li> <li>Use knowledge of 2, 5, 10, 3, 4 and 8 times tables (multiplication and division facts) to solve problems including with simple remainders</li> </ul>

<ul> <li>To know that not all numbers can be divided equally and this might result in a remainder</li> </ul>	
Spring Term	
<ul> <li>Measures (lengths)</li> <li>To know that there are 10mm in 1cm and 100cm in 1m</li> </ul>	<ul> <li>Measures (lengths)</li> <li>Measure (read) lengths in millimetres, centimetres and metres</li> <li>To compare and order lengths when represented in different ways (eg 23cm and 34mm)</li> <li>To add and subtract units of length</li> </ul>
<ul> <li>Multiplication and division</li> <li>Know when a statement represents a multiplication or a division problem and show and show how these are related</li> <li>Know that multiplication can use a expanded or compact method.</li> <li>Know that division can involve partitioning/rearranging using knowledge of multiples.</li> </ul>	<ul> <li>Multiplication and division <ul> <li>Use the inverse to check multiplication and division problems</li> <li>Multiply a 2-digit number by a 1digit number using known facts</li> <li>Multiply a 2 digit number by a 1 digit number using expanded and compact method (short multiplication)</li> <li>Divide 2 digit numbers by 1 digit numbers using partitioning e.g example</li> <li>Solve 2 digit divided by 1 digit calculations (see calculation policy)</li> </ul> </li> </ul>
<ul> <li>Statistics</li> <li>To know that a pictogram represents data in pictures and that a picture can represent more than 1</li> <li>To understand how information is represented in a bar chart, including in scales of 2, 5 and 10</li> </ul>	<ul> <li>Statistics</li> <li>To interpret data on a pictogram (including using keys when the picture represents more than 1) and a bar chart (including answering questions which use addition and subtraction</li> <li>Present data in a pictogram including when the picture represents more than 1) and bar charts, selecting appropriate scales.</li> </ul>
<ul> <li>Fractions</li> <li>To know, recognise and write a unit fraction in shapes</li> <li>To know, recognise and write non-unit fractions of a shape</li> </ul>	<ul> <li>Fractions</li> <li>Interpret and write proper fractions to represent 1 or parts of a whole (that is divided into equal parts) by:</li> <li>To find a unit fraction of a set of objects/amount</li> </ul>

•	Know that tenths arise from dividing an object into 10 equal parts Know that tenths arise from dividing 1 digit numbers or quantities by 10, representing this in a division sentence	<ul> <li>To find a non-unit fraction of a set of objects/ amount</li> <li>To make a whole using unit and non-unit fractions with the same denominator</li> <li>Count up and down in tenths up to an beyond a whole</li> </ul>	∶of on- o and
•	Recognise and show, using diagrams, equivalent fractions with small denominators	<ul> <li>Recognise and show, using diagrams, equivalent fractions with small denominators</li> <li>Compare and order unit fractions</li> <li>Compare and order fractions with the same denominators</li> <li>Add and subtract fractions with the same denominator within one whole</li> <li>Solve problems involving fractions</li> </ul>	ns, the ie ole
Summe	er Term		
Money	Know that total of monoy can be shown	Money	
·	in notes and coins and recorded in pounds and pence	<ul> <li>Find total of money shown in notes and coins and record in pounds and pence</li> <li>Convert between pounds and pence (e.g. five 20p coins = £1, 20 5p coins = £1</li> <li>Add and subtract amounts of money using pound and pence</li> <li>Solve addition and subtraction money problems including giving change</li> </ul>	es and ence. ce ns = ney ney
Angles	and properties of shape	Angles and properties of shape	
• • •	Identify horizontal and vertical lines, parallel and perpendicular lines. Recognise that angles are a property of shape or a description of turn Identify right angles and know that this is a quarter turn. Recognise that 2 right angles make a half-turn, three make three quarters of a turn and 4 make a complete turn Identify whether angles are greater or less than a right angle	<ul> <li>Draw horizonal and vertical lines and pairs of perpendicular and parallel lines, including finding these in 2d shapes</li> <li>Draw 2d shapes</li> <li>Measure the perimeter of simple 2d shapes</li> </ul>	ind I 2d
Time •	To know the number of seconds in a minute, and the number of days in each month, year and leap year.	<ul> <li>Time</li> <li>Tell and write the time from a 12 hour analogue clock (and using Roman numerals).</li> <li>Tell and write the time from an analogue 24 hour clock (using correct</li> </ul>	nour

	<ul> <li>vocabulary of am, pm, morning, afternoon, noon and midnight)</li> <li>Estimate and read time with increasing accuracy to the nearest minute</li> <li>Compare duration of events (eg calculate the time taken by particular events or tasks)</li> <li>Record and compare time in terms of seconds, minutes and hours</li> </ul>
<ul> <li>Statistics - Tables</li> <li>Know that information can be presented in a table.</li> </ul>	<ul> <li>Statistics - Tables</li> <li>Interpret information presented in a table (including using addition and subtraction to answer questions, comparing and ordering and working out duration)</li> </ul>
<ul> <li>Measure - mass and capacity</li> <li>Know how to read a scale of different intervals</li> <li>To know that grams is a smaller measure of mass than kilograms and that there are 1000 grams in a kilogram</li> <li>Know that millilitres are a smaller measure than litres and that there are 1000ml in 11.</li> <li>Measure in litres and millilitres using different scale intervals</li> </ul>	<ul> <li>Measure - mass and capacity</li> <li>Use scales to measure mass in grams and kilograms</li> <li>Represent mass in kilograms and grams (eg 1240 grams = 1kg and 240grams)</li> <li>Compare mass in kilograms and grams</li> <li>Solve mass problems using the 4 operations</li> <li>Represent and compare capacity in litres and millilitres</li> <li>Solve capacity problems using the 4 operations</li> </ul>
<ul> <li>3d - shapes</li> <li>Recognise and describe properties of 3d shapes</li> <li>Recognise 3d shapes in different orientations and describe them</li> </ul>	<ul> <li>3d - shapes</li> <li>Construct 3d shapes using eg using nets and modelling materials</li> </ul>