SMART Maths

Mathematics Curriculum

2021 Guidance

Long term planning guidance by year group.



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Counting (LO1)

Autumn	Spring	Summer
Rote count to 3	Rote count to 5	Rote count to 10 and beyond
Touch count objects up to 3	Touch count objects up to 5	Count 0-10 forwards and backwards in
Count and copy up to 3 claps; 3 marching steps	Match number of objects to correct numeral at least to 3, then 5 (show finger	everyday contexts eg countdowns/ footsteps/pennies
Sing 'Two Little Dickie Birds' and 'When Goldilocks went to the House of the	numbers) Recognise the numerals 0 -5 and say the	Match the number of objects (0–5) to the correct numeral
Bears' counting with actions for one, two, three	number name	Say how many objects (0-3) when asked 'How many?' without touch counting
Say how many objects (1–3) when asked	Sing songs using counting actions up to 5 eg 5 Little Men in a Flying Saucer	(subitise)
to 'count how many' Recognise the numerals 1, 2, 3, and say	Know that the last number reached when counting a small set of objects tells	Count and match arrangements of up to six items, eg dice/dominoes (subitise)
the number name	you how many there are in total (cardinal principle)	Count objects (including cups) up to 5, moving them from the Resources Table to the Maths table
	Compare quantities using language: 'more than', 'fewer than'	Begin to use the counting action and count out loud when asked to, 'Look at the Maths Table and count'
		Use the denomination of the object being counted, for example, [number] cups/teddies etc when asked 'How much is there here?' (cardinal principle)
		Solve real world mathematical problems with numbers up to 5
		Sing counting on and back songs to 10 (If taking away eg cakes, remove from the Maths Table, the Shop, back to the Resources Table, Home)
Additional 2021 EYFS Framework guidance	:	
Nursery Learning Goals – Number Rote count to 10	Literacy Count or clap syllables in a word	Expressive Arts & Design Clap or tap to the pulse of songs or music
Recognise the numerals from 0-5 and count the correct number of objects	Page sequencing	
Develop fast recognition of up to 3 objects, without having to count them individually (subitising)		



Number (LO1)

Autumn	Spring	Summer
Recognise the numerals 1, 2, 3, and say	Recognise numerals 0-5	Say number name when shown number
the number name	Sequence numbers from 0 to 5	symbol to at least 5
	Order objects or pictures and say: first, second, third	Make staircases to show the 'fiveness of 5' (subitise)
	Explore the 'fiveness of 5' (subitise)	Sequence numbers from 0 to 10
		Compare quantities using language: 'more than', 'fewer than'
Additional 2021 EYFS Framework guidance		
Nursery Learning Goals- Number Recognise the numerals from 0-5		
Develop fast recognition of up to 3 objects, without having to count them individually ('subitising')		
Mathematics Number Experiment with their own symbols and marks as well as numerals		

Writing (LO1)

Autumn	Spring	Summer
Experiment with their own symbols and marks as well as numerals	Write some letters (numerals) accurately	Copy the numerals 0, 1, 2, 3 with increasing accuracy using the large oval template
Additional 2021 EYFS Framework guidance	:	
Mathematics Number Experiment with their own symbols and marks as well as numerals		
Literacy Write some letters (numerals) accurately		
Physical Development Fine motor Use a comfortable grip with good control when holding pens and pencils		



Calculating (LO2)

Autumn	Spring	Summer
	Experiment with their own symbols and marks as well as numerals to solve real	Solve real world mathematical problems with numbers up to 5
	world mathematical problems	Sing counting on and back songs. (If taking away eg cakes, remove from the Maths Table side, the Shop, back to the Resources Table side, Home.) When asked eg How many more? How many left? Children respond by working out the quantity (count fingers and/or objects) and/or saying one more/less
		Compare quantities using language: 'more than', 'fewer than'
Additional 2021 EYFS Framework guidance		
Mathematics Number Solve real world mathematical problems with numbers up to 5		
Nursery Learning Goals- Number Compare quantities using language: 'more than', 'fewer than'		

Shape (LO5)

Autumn	Spring	Summer
Explore & talk about shape using informal language to describe it	Talk about and recognise 2D shapes: rectangle, square, triangle, circle, oval	Match shapes by recognising similarities, eg same number of sides;
Walk on lines – curved and straight	Talk about and recognise 3D shapes:	straight/curved (bendy) sides
Draw lines (freehand)	cube, cuboid (box); sphere (ball); cylinder	Notice simple symmetry
	(tube)	Select shapes appropriately: flat surfaces
	Make and continue a pattern with, for example, repeated colours, shapes or	for building, a triangular prism for a roof etc
	sizes	Combine shapes to make new ones - an
	Walk and ride on lines and around	arch, a bigger triangle etc
	shapes on the playground, talk about the shapes	Begin to name 2D shapes in everyday contexts eg a drawing of a house with
	Create closed shapes with continuous	windows (square), door(rectangle) and a
	lines	roof (triangle)

Additional 2021 EYFS Framework guidance:

Mathematics - Shape & Space

Talk about similarities and begin to use mathematical names for 2-D shapes (square, rectangle, triangle and circle)

Nursery Learning Goals- Number Compare quantities using language:

'more than', 'fewer than'

Expressive Arts and Design

Create closed shapes with continuous lines, and begin to use these shapes to represent objects

Physical Development Fine & Gross motor Use a comfortable grip with good control

when holding pens and pencils

Continue to develop their movement, balancing, riding



Position (LO5)

Autumn	Spring	Summer
Use positional language - behind/in front; up/down; inside/outside Notice patterns and arrange things in	Use scales to weigh objects and ingredients: Use the vocabulary heavy, light, heavier, lighter, heaviest and	Use positional language, eg left, right, top, middle (centre), bottom; next/beside/opposite/between
patterns	lightest Use the vocabulary of height, eg tall,	Use positional language to describe walks and journeys
	short, and weight, eg heavy, light	Notice and correct an error in a
	Use the vocabulary of capacity – full/empty/half-full; more/less	repeating pattern
	Use positional language to order three objects of different size.	
	Extend and create ABAB patterns – stick, leaf, stick, leaf	
Additional 2021 EYFS Framework guidance	ce:	
Nursery Learning Goal- Shape & Space Notice and correct an error in a repeating pattern		
Mathematics - Shape & Space Follow some simple instructions using		

positional language

Measure (LO7)

Autumn	Spring	Summer
Compare sizes, weights etc using gesture and language - 'bigger/little/smaller', 'high/low', 'tall', 'heavy' Uses early vocabulary of time eg today,	 Make comparisons between objects relating to size, length, weight and capacity Compare quantities using language: 	Arranges objects in order of size using a more mathematical vocabulary with comparatives & superlatives eg short, shorter/shortest
the day before/after this day	'more than', 'fewer than' Knows some names of days of the week	Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then…yesterday/today/tomorrow
		Refers to days of the week, begins to sequence
		Knows some months of the year and season names.
		Use vocabulary like 'morning', 'afternoon', 'evening' and 'night-time', 'earlier', 'later', 'too late', 'too soon', 'in a minute'
Additional 2021 EYFS Framework guidan	ce:	
Nursery Learning Goals- Number Compare quantities using language: 'more than', 'fewer than' Mathematics - Shape & Space	Mathematics Shape and Space Begin to describe a sequence of events, real or fictional	Physical Development - Gross Motor Increasingly be able to use and remember sequences and patterns of movements which are related to music and rhythm
Make comparisons between objects relating to size, length, weight and		Understanding the World

Understanding the World

Plant seeds and care for growing plants. Understand the key features of the life cycle of a plant and an animal

capacity



Sorting and Data (LO8)

Autumn	Spring	Summer
	Sort objects and shapes according to own criteria eg animals; vehicles	Sort objects into groups of the same type, eg beads or pictures of frogs
Additional 2021 EYFS Framework guidan	ce:	Sort and match objects according to size
Nursery Learning Goals- Number Compare quantities using language:	Understanding the World Explore collections of materials with	
'more than', 'fewer than' Mathematics - Shape & Space Make comparisons between objects relating to size, length, weight and	similar and/or different properties	
capacity		

and backwards from 0 to Single digit to 10 and back Touch count to 5 then 10 Subitise to 5 Pretices of 2D shapes e, circle and triangle) Begin to name 2D shapes (circle, triangle)
Touch count to 5 then 10 Subitise to 5 erties of 2D shapes Number formation (0-5)
erties of 2D shapes Number formation (0-5)
e. circle and triangle)
e, circle and triangle)
ube and cuboid) square, rectangle)
age – Beginning (Start), t, Next, Last 'more than', 'fewer than'
rents - Yesterday; Today; Positional Language
Sequence events - Days of week, Seas

Mathematics – Shape & Space	
Talk about similarities and begin to use	
mathematical names for 2-D shapes (square, rectangle, triangle and circle)	
Follow some simple instructions using positional language	
Make comparisons between objects relating to size, length, weight and	
capacity	
-	Talk about similarities and begin to use mathematical names for 2-D shapes (square, rectangle, triangle and circle) Follow some simple instructions using positional language Make comparisons between objects relating to size, length, weight and



Counting (LO1)

Autumn	Spring	Summer
Count objects at least up to 5	Count objects & match to numeral at	Recognise and say a half when asked,
Say how many objects (1–5) when asked	least to 10, then 20	How much is there here? and when shown the symbol ½
to 'count how many'	Use the counting action and count out	
Recognise the numerals 0, 1, 2, 3, 4, 5 and say the number	loud when asked to, 'Look at the Maths Table and count'	Say 'a half cup' when shown a half cup and asked How much is there here?
Match the number of objects (0–5) to the correct numeral	Use denomination In Real-Stories/Real- Life Stories, say, for example, [number]	Say a quarter cup when shown a quarter cup and asked, how much is there here?
	cups/children when asked 'How much is there here?' Count forwards/backwards from zero in ones to/from 20 and count up to 50 crossing 10's boundaries	Count forwards/backwards 0 to 20 and
Develop fast recognition of up to 5 objects, without having to count them		beyond (up to 99)
individually ('subitising')		
Count 0-10 forwards and backwards, count to 20 forwards inc everyday		
contexts eg footsteps/pennies		
Count and match arrangements of up to six items, eg dice/dominoes (subitise)		
Use counting action for objects to at least 10, when asked to, 'Look at the Maths Table & count'. For Real-life story		
count eg pennies. Say, \Box cups/pennies when asked, How much is there here?		
Additional 2021 EYFS Framework guidance	3.	

ELG: Number

Have a deep understanding of number to 10, including the composition of each number

Subitise (recognise quantities without counting) up to 5

Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts

ELG: Numerical Patterns

Verbally count beyond 20, recognising the pattern of the counting system; Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity

Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally

Expressive Arts & Design

Invent, adapt and recount narratives (involving number or size) and stories with peers and their teacher

Sing a range of well-known nursery rhymes and songs; (counting songs), and experiment with ways of changing them (What if not?)

Explore and engage in music making and dance, performing solo or in groups and – when appropriate – try to move in time with music (counting a beat)



Number (LO1)

Autumn	Spring	Summer
Count objects (1–10) and match to the correct numeral	Sequence numbers from 0 to 10 then 0 to 20	Count and match pennies to objects costing up to 10p
	Order objects or pictures and say: first, second, third, etc up to tenth	Say 'a half' when shown the symbol ½ or words 'a half' or 'one half' and asked
	Match <i>pairs</i> of numbers (0–20) to a variety of objects	'What does this say?' Then for ¼
Additional 2021 EYFS Framework guidance	::	
ELG: Number Have a deep understanding of number to 10, including the composition of each	ELG: Numerical Patterns Verbally count beyond 20, recognising the pattern of the counting system	
number Subitise (recognise quantities without counting) up to 5	Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity	
	Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally	

Writing (LO1)

Autumn	Spring	Summer
Accurately, write numerals 0, 1, and 3 (which sit inside the oval 0 template) in a	Copy addition and subtraction Maths Stories with 1-digit whole numbers	Write the symbol ½ accurately and then $\%$
variety of contexts numbers 4, 6, & 8 (inside oval 0)	Read and Write the numbers to 10 then to 20	Copy addition and subtraction Maths Stories with 1-digit whole numbers and
numbers 2, 5, 7, & 9 (outside oval 0)		half
Additional 2021 EYFS Framework guidance	:	
Physical Development Fine Motor Hold a pencil effectively in preparation for fluent writing – using the tripod grip in almost all cases		
Use a range of small tools, including scissors		
Begin to show accuracy and care when drawing. (Number formation, cutting on a line to cut out shapes, join dots)		



Calculating (LO2)

Autumn	Spring	Summer
Act the Real Story (cups) for addition Maths Stories with 1-digit whole numbers by following <i>verbal</i> <i>instructions</i> , ie Get ready to get some more; then for <i>written</i> 1-digit Maths stories, including 0 Act out a basic Real-Life Story (counters/ blocks/pennies following <i>verbal</i>	Act the Real Story, using cups/blocks/counters, for addition, then subtraction, Maths Stories with 1-digit whole numbers Look at the Maths Story and read what it says /means for addition/subtraction Maths Stories with 1-digit whole numbers Automatically recall (without reference to	Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts Use 10-frames to add/subtract by subitising and using known bonds to 5 (and 10)
instructions. Use vocabulary relating to addition Look at an addition Maths Story with 1- digit whole numbers, read what it says: 2 + 4 + 3 = 9; means: two cups, add four cups, add three cups, equals nine cups	Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) Use the words and actions for: add, take away and equals	Begin to use more efficient strategies to Act a Real Story for an addition and subtraction Maths Story with 1-digit whole numbers (cups/blocks/counters) and halves, using whole and half cups, then quarter cups
Say one more than and one less than a given number (0–10)	Say one more than or one less than for 1- digit whole numbers up to 20	Act out addition and subtraction Real-Life Stories for 1-digit whole numbers, eg two
	Double up to 5 + 5 objects	parcels, add three parcels, take away one parcel, equals four parcels
	Share up to 15 objects equally	Link one more than/ one less than to Maths Stories (+1 or -1) saying 'one more/less than \square is \square (up to 99)
Additional 2021 EYFS Framework guidance	::	
FLG: Number	FLG: Numerical Patterns	

ELG: Number

Have a deep understanding of number to 10, including the composition of each number

Subitise (recognise quantities without counting) up to 5

Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts

ELG: Numerical Patterns

Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity

Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally



Shape (LO5)

Autumn	Spring	Summer
Match shapes by recognising similarities, eg same number of sides	Recognise and name 2D shapes: rectangle, square, triangle, circle, oval	Identify and name 2D shapes Sort 2D shapes by type, ie tessellating and non-tessellating
Begin to use mathematical names for 2D	Find half of shapes (symmetry)	
shapes	Sort and match 2D shapes (rectangle, square, triangle, circle, oval) by counting the number of <i>straight</i> sides	Identify and name 2D & 3D shapes in everyday contexts, eg a sphere-shaped ball; a tin of beans as a cylinder; ice-
	Recognise & name 3D shapes: cube, cuboid	cream cornet as a cone
	Make and continue a pattern with, for example, repeated colours, shapes or sizes	
Additional 2021 EYFS Framework guidance		
Mathematics: Shape & Space Select, rotate and manipulate shapes in		Understanding the World Draw information from a simple map.
order to develop spatial reasoning skills Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can		Recognise some environments that are different to the one in which they live
		Compare similarities and differences in relation to places, objects, materials and living things (shape/space, positional vocabulary, comparatives & superlatives
		Expressive Arts & Design-Creating with Materials Use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function
		Share their creations, explaining the process they have used; make use of props and materials when role playing characters in narratives and stories. (Shape & Space)



Position (LO5)

Autumn	Spring	Summer
Use positional language, such as over/ under/through; behind/in front; up/down; over/under, straight /curved; inside/outside; after/before	Use scales to weigh objects and ingredients: Use the vocabulary heavy, light, heavier, lighter, heaviest and lightest	Use positional language, eg left, right, top, middle (centre), bottom; next/beside/opposite/between
	Use the vocabulary of height, eg tall,	Use positional language to describe walks and journeys
	short and use comparative/superlative, and weight, eg heavy, light	Continue, copy and create repeating patterns
	Use the vocabulary of capacity – full/empty/half-full; more/less	
Additional 2021 EYFS Framework guidance	2:	
Mathematics: Shape & Space Continue, copy and create repeating patterns	Physical Development Gross Motor Revise and refine the fundamental movement skills they have already acquired eg walk forwards/backwards in a straight line	Understanding the World Draw information from a simple map.
Select, rotate and manipulate shapes in order to develop spatial reasoning skills.		Recognise some environments that are different to the one in which they live - compare similarities and differences in
Compare length (distance), weight (mass) & capacity.		relation to places, objects, materials and living things (shape/space, positional vocabulary, comparatives & superlatives)

Measure (LO7)

Autumn	Spring	Summer
Use vocabulary related to size, eg little, medium, big, huge	Compare heights using vocabulary of short and tall	Weigh parcels/objects and say /order which is heavier/lighter or
	Order height as shorter than and taller than, shortest, tallest	heaviest/lightest Say o'clock for time on the hour
	Use the vocabulary heavy, light, heavier, lighter, heaviest and lightest	Measure one- or five-minutes using sand timers
	Compare capacity using vocabulary of empty/full	Count the number of actions done within a time limit, eg counting jumps or numbers with a sand timer
		Talk about time using the vocabulary of minutes, hours, o'clock, early and late
		Talk about speed using the vocabulary of fast and slow
Additional 2021 EYFS Framework guidance	2.	
	Understanding the World Explore the natural world around them	Mathematics: Shape & Space Compare length (distance), weight
	Describe what they see, hear and feel whilst outside	(mass) & capacity Use vocabulary of position and time to
	Compare similarities and differences in relation to places, objects, materials and living things (shape/space, positional vocabulary, comparatives & superlatives)	compare quantities and objects and to solve problems



Sorting and Data (LO8)

Autumn	Spring	Summer
Sort objects into groups of the same type, eg beads or pictures of frogs	Sort 2D and 3D shapes according to criteria	Collect information to make a block graph
Sort and match objects according to size		Find and talk about the information on a block graph
Additional 2021 EYFS Framework guidance		
	Mathematics: Shape & Space Select, rotate and manipulate shapes in order to develop spatial reasoning skills	ELG: Numerical Patterns Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity
		Mathematics: Shape & Space Compare length (distance), weight (mass) & capacity.
		Use vocabulary of position and time to compare quantities and objects and to solve problems

Autumn	Spring	Summer
Number formation 0-9; then 0-20	Find one more and one less	Find one more and one less
Counting forwards and backwards	Count forwards and backwards	Count forwards and backwards
Recognise numerals 0-9; then 0-20	Number formation (0-20)	Subitise to state number bonds to 10
Subitise to 5	Subitise to 10	Number formation (0-20)
Days of the week; Months of the year Recognise and name 2D shapes (square,	Recognise and name 2D shapes (square, rectangle, circle and triangle); 3D shapes	Name 3D shapes cube and cuboid; then sphere, cone; cylinder, pyramid
rectangle, circle and triangle)	cube and cuboid	Double numbers up to 10
	Months of the year	Dates
Additional 2021 EYFS Framework guidance	::	
Expressive Arts & Design Sing a range of well-known nursery	ELG: Number Have a deep understanding of number to	ELG: Numerical Patterns Compare quantities up to 10 in different

rhymes and songs; (counting songs), and experiment with ways of changing them (What if not?)	10, including the composition of each number	contexts, recognising when one quantity is greater than, less than or the same as the other quantity
	Subitise (recognise quantities without counting) up to 5	Explore and represent patterns within
	Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts	numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally



Arithmetic

Autumn	Spring	Summer
Calculate and record addition and subtraction maths stories to 20	Copy and solve vertical addition and subtraction (up to 3-digit numbers)	Copy and solve vertical addition and subtraction (up to 4-digit numbers)
Add and subtract 1/2 and 1/4		
Use facts to 10 to Create addition and subtraction maths stories about 0, 00 and 000		
Additional National Curriculum guidance:		
Add and subtract one and two-digit numbers to 20 Use known facts to 10 to calculate to 20	Read and write numbers to 100	

Geometry

Autumn	Spring	Summer
Draw lines and shapes with a ruler	Make whole, half, quarter and three- quarter turns	Recognise and compare 1D, 2D and 3D shapes
Make 2D shapes using dm sticks and find the perimeter Measure the length of lines in cm	Name 2D shapes: square, rectangle, triangle and circle	Name 3D shapes: cuboid, cube, pyramid and sphere
Measure the length of lines in cm		Identify 2D faces on 3D shapes
Additional National Curriculum guidance:		
Use positional language: top/middle/bottom left/right	Use positional vocabulary: left/right, top/middle/bottom, close/far, inside/outside, between/above	Recognise shapes in different orientations and sizes



Data and Measures

Autumn	Spring	Summer
Measure the length of shapes using dm	Measure and record length	Calculate change (not mixing pounds and
Find the perimeter of shapes using dm	Say and write mass	pence)
Use actions: 1cm/1dm/1m and 1g/1kg	Compare weights and measure mass in kg and g	Draw hands on a clock face in preparation for telling the time
	Say and write volume in ml	
	Select coins for different amounts (not mixing pounds and pence)	
Additional National Curriculum guidance:		
	Use a range of measuring tools	Read times: o'clock and half past
	Measure and record using dm/cm, g/kg and l	Use time vocabulary: before, after, today, tomorrow, yesterday, seconds, minutes, hours, morning, afternoon, quicker/slower, earlier/later
	Compare measurement using vocabulary: long/short, heavier/lighter, half full/quarter full, full/empty	
	Recognise the value of coins and notes	

Arithmetic 2

Autumn	Spring	Summer
Calculate + and - maths stories	Calculate ÷ maths stories	Understand embellished and basic real-
Calculate x maths stories	Calculate maths stories involving all four operations	life stories Solve addition and subtraction word problems
	Calculate addition and subtraction maths stories involving whole, 1/2 and 1/4	
Additional National Curriculum guidance:		
+ and - using concrete objects and pictorial representation	÷ using concrete objects, pictorial representations and arrays	Solve problems using pictorial representations
x using concrete objects, pictorial representations and arrays		



Reasoning

Autumn	Spring	Summer
Write numbers 0-9 and fractions	Create and draw basic and embellished	Shade $1/_2$, $1/_4$ and $3/_4$ of a shape
Calculate + and - maths stories	real-life addition and subtraction stories	Months of the year
Use comparative language: bigger/smaller, equal to, difference between		Create a bar chart
Additional National Curriculum guidance:		
Understand language involved: add, altogether, total, take away, more than,		Recognise and find 1/2 of an object, shape and quantity
less than		Recognise and find 1/4 of an object, shape and quantity

Count in ones along a number line	Number bonds to 10
Use positional vocabulary: top, bottom, left and write	Number bonds to 20
Count days and dates on a calendar	Find 10 more or less than a number
Identify shapes: triangles, quadrilaterals, pentagons and	Fill in missing numbers
hexagons	Match coins to the price of an item
Draw straight lines between dots	Estimate number of objects using groups of 2, 5 and 10
Read and write fractions: $1/_2$ and $1/_4$	Complete a flow diagram: + - x
Calculate totals of money up to 10p	Compare times of the day
Recognise odd and even numbers	Compare prices of objects
Count movements on a number line	
Additional National Curriculum guidance:	
Count forwards and backwards to and across 100	Create repeating patterns with objects and shapes
Read and write numbers to 100	Double numbers to 10
Count in 2s, 5s and 10s forwards and backwards	Halve numbers to 20
Identify 1 more and 1 less than numbers to 100	Know and order days of the week
Order: first, second, third	Know and order months of the year
Read and write numbers to 20 in numerals and words	Know number bonds to 20 and related subtraction facts
Order numbers	Solve missing number and symbol maths stories
Compare amounts: equal to, more than, less than, fewer than, most, least	



Arithmetic

Autumn	Spring	Summer
Calculate vertical + and - maths stories	Complete vertical subtraction with one tricky column	Solve word problems involving all four operations
Calculate + - x and ÷ maths stories involving	Solve addition and subtraction word	Write horizontal maths stories vertically
$^{1}/_{2}$ and $^{1}/_{4}$	problems	and solve with one tricky column
Calculate vertical addition with one tricky column		
Additional National Curriculum guidance:		
Recall addition and subtraction facts to 20	Partition in different ways (when teaching funny counting) eg 53=50+3 or	
Use language: sum and difference	40+13	
Recognise place value of each digit	Use pictorial representations	

Geometry

Autumn	Spring	Summer
Make and name 2D shapes using dm and find the perimeter Identify lines of symmetry in 2D shapes	Describe the properties of 3D shapes: number of faces, vertices, edges and shape of faces	Name 2D shapes: polygons, quadrilaterals, hexagon, pentagon, octagon
Identify right angles	Identify lines of symmetry in 2D shapes Identify angles	Name special 2D shapes: isosceles triangle, equilateral triangle, right-angled triangle, rectangle, square
	Recognise squares, rectangles & triangles in <i>different orientations</i> (moved from MMS2 Ge B6 for SATs)	Recognise 3D shapes: name prisms and pyramids
		Use nets for 3D shapes
Additional National Curriculum guidance:		
2D shape properties: corner, sides, diagonal, vertical, horizontal, symmetry	Name 3D shapes: cuboid, prism, cylinder, cone, pyramid	Name 2D and 3D shapes in different orientations
Rotation as a turn or in terms of right	Sort 3D shape	
angles for $1/4$, $1/2$ and $3/4$ turns	Sort 2D shapes	
Rotate clockwise and anti-clockwise	Patterns/sequences of shape in different orientations	



Data and Measures

Autumn	Spring	Summer
Read times: o'clock, quarter past, half past, quarter to	Identify explicit and implicit information in grids and bar charts	Interpret bar charts and pictograms
Draw the hands on a clock face	Measure length using cm, mm, dm, m	Measure length in mm
		Read and write digital times
Read and write digital times	Calculate change	
Select and use measuring tools		
Additional National Curriculum guidance:		
Know the number of minutes in an hour	Use symbol £ and p separately	Pictograms and bar charts in units of 2, 5
and hours in a day	Find combinations of coins to make	and 10
Read and write time to 5 minutes	totals	Interpret tally charts and tables
Estimate and measure in mm, cm, m, g, kg, ml, l, °C	Money word problems	Construct simple pictograms, tally charts, block diagrams and tables
Compare measurements using <>= and 'twice as high' 'half as wide'		Compare and sequence intervals of time

Arithmetic 2

Autumn	Spring	Summer
Identify maths stories and basic real-life story in embellished stories Identify implicit and explicit information	Partition numbers note Language: Tens (ty) Units (cups) also as Ones interchangeably from this point onwards through KS2 Write mixed numbers Difference between Number sequences Number puzzles: totals of money, missing numbers, find ways to make a total	Number puzzles: order numbers, create numbers, money puzzles, missing numbers and symbols Find ¹ / ₂ and ¹ / ₄ of numbers and objects Write numbers shown on an abacus Sort numbers using Carroll and Venn diagrams
Additional National Curriculum guidance:		
		Find, name, write fractions of a length, shape, quantity: $1/2$, $1/4$, $3/4$, $2/4$, $1/3$
		Recognise the equivalence of $^2\!/_4$ and $^1\!/_2$



Reasoning

Autumn	Spring	Summer
Inverse of addition	Solve word problems involving all four	Select and use measuring tools
Commutative law	operations	Solve measuring word problems
Inverse of multiplication	Type 1 and Type 2 division	Type 1 and Type 2 multiplication
Grid method x and ÷ as a picture of the Maths Story		Create x and ÷ maths stories about 0, 00 and 000
Additional National Curriculum guidance:		
Solve missing number problems Use related facts eg 3+4=70 therefore 30+40=70	Use pictorial representations	Recall multiplication and division facts for 2-, 5- and 10-times tables
Use arrays		

Find 10 more or less than a number	Repeated addition and multiplication SVDA
Find 20 more or less than a number	Repeated subtraction and division SVDA
Recall multiplication facts for 2-, 5- and 10-times tables	Missing number maths stories
Know months of the year and number of days in each month	Compare numbers to 100 using <>=
Recall addition facts and corresponding subtraction facts	Find missing tens or unit number
Number bonds to 50	Add, subtract and multiply cumulatively
Use number line to add	Round numbers to the nearest 10
Number pairs with 2-digit totals	Estimate answers to calculations
Money SVDA	Estimate number of objects
Identify totals of money	Compare time durations
Read information from calendars	Create and describe number patterns
Use calculator for all four operations	Identify symmetrical patterns
Put events in chronological order	
Additional National Curriculum guidance:	
Count in 2s, 3s, 5s and 10s forwards and backwards	Recognise odd and even numbers
Read and write 0-100 in numerals and words	Doubling and halving amounts to 100
Order numbers to 100	Recognise doubling as x 2 and halving as ÷ 2
Add and subtract mentally a 2-digit number and ones/tens	Count in fractions to 10 (eg 0 $^{1}/_{4}$ $^{1}/_{2}$ $^{3}/_{4}$ 1)
Add and subtract mentally two 2-digit numbers	Recognise odd and even numbers
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Arithmetic

Autumn	Spring	Summer
Calculate + and - maths stories involving mixed numbers	Calculate + - x and ÷ maths stories involving fifths and sevenths	Calculate + - x and ÷ maths stories involving negative numbers
Vertical + and - with tricky columns (TU)	Vertical + and - with tricky columns (TU)	Calculate + - x and ÷ maths stories
Calculate + - x and ÷ maths stories	Calculate + - x and ÷ maths stories	involving fifths and sevenths
involving fifths	involving negative numbers	Vertical + and - with tricky columns (HTU)
Additional National Curriculum guidance:		
Recognise place value of each digit	Solve problems involving fractions	
Partition in different ways eg 153=100+50+3 or 140+13		

Geometry

Autumn	Spring	Summer
Investigate properties of lines	Identify degrees in $1/4$, $1/2$, $3/4$ turns	Use a compass and ruler to draw
Draw and measure lines	Draw angles multiples of 10°	triangles
Name polygons	Use set squares to identify and draw right angles	Compare and draw triangles specified by co-ordinates
Distinguish between clockwise and anti- clockwise	Recognise parallel and perpendicular	Identify pyramids and prisms from its net
Plot co-ordinates	lines	Recognise 3D shapes from 2D drawings
	Plot and draw lines	Identify and draw types of triangles
Additional National Curriculum guidance:		
Recognise symmetrical and non- symmetrical polygons and polyhedra	Identify whether angles are right angles, acute or obtuse	Make 3D shapes using modelling material
	Identify horizontal and vertical lines	Recognise 3D shapes in different orientations



Data and Measures

Autumn	Spring	Summer
Write digital times Calculate time differences and durations	Interpret data in grid, pie charts and bar charts	Create and interpret tally charts and bar charts
Use compass to draw and measure	Measure length and mass	Calculate totals and difference between prices
circles and nexagons		Estimate and measure mass and capacity
		Calculate are a and volume
		Solve area word problems
Additional National Curriculum guidance:		
Read digital 12-hour clocks	Units of 2, 5 and 10	Add and subtract money (mixed units)
Tell the time using Roman numerals	Interpret pictograms	and record f and p separately
Use vocabulary: o'clock, am, pm, morning, afternoon, noon and midnight	Solve one- and two-step problems, eg how many more/fewer?	Calculate change
	Use mm/cm/m, g/kg and mixed units eg 1kg and 200g	
	Compare measurements	
	Add and subtract measurements	

Arithmetic 2

Autumn	Spring	Summer
Calculate fractions of quantities	Multiply TU X U using grid method	Use all four operations including tenths
Solve word problems involving fractions of quantities	Solve division word problems Express remainders as a fraction	Calculate vertical + and - including decimals
		Write squares and square roots
		Identify the operation required to solve a word problem
Additional National Curriculum guidance:		
Compare and order fractions Equivalent fractions		Identify number of tenths eg 34.2 2 tenths
		Count up and down in tenths



Reasoning

Autumn	Spring	Summer
Use vertical + and - to solve word problems Order numbers Solve x and ÷ word problems	Multiply TU x U by partitioning Multiply TU x U using grid method Use inverse for division with remainders Write a ratio as a fraction	Use known facts to calculate maths stories Identify fractions that add to 1 Calculate difference between fractions Partition numbers to solve maths stories involving all four operations1 Solve division word problems Odd and even numbers Calculate total cost and difference between prices Number puzzles
Additional National Curriculum guidance:		
Solve problems involving four times as high, eight times as long		

Recall multiplication facts from 2-, 5- and 10-times tables	Convert between ml/l, mm/cm/dm/m
Recall multiplication facts from 3- and 4-times tables	Convert times between analogue and digital form
Recognise equivalences eg 2m=200cm	Add and subtract money mentally
Convert between g/kg, cm/dm/mm	Round numbers to the nearest 10 or 100
Multiply a 2-, 3- and 4-digit multiple of 10 by a 1-digit number	
Additional National Curriculum guidance:	
Count in 2s, 3s, 4s, 5s, 8s, 10s, 50s and 100s forwards and	Recognise acute, obtuse and right angles
backwards	Identify horizontal, vertical, parallel and perpendicular lines
Count forwards and backwards in tenths	Know number of seconds in a minute
Recall division facts from 3-, 4- and 8-times tables	Know number of days in each month
Find 10 more or less than a number	Know number of days in a year and leap year
Find 100 more or less than a number	Read analogue times to 5 minutes
Read and write numbers to 1000 in numerals and words	Read and write times to the nearest minute
Compare and order numbers to 1000	Add and subtract mentally a 3-digit number and ones/tens/hundreds



Arithmetic

Autumn	Spring	Summer
Calculate maths stories for all four operations involving mixed numbers,	Calculate maths stories for all four operations involving fractions, mixed	Calculate percentages of whole number quantity
halves and quarters Calculate maths stories for all four	numbers and negative numbers Place value (4-digit numbers)	Calculate decimal number percentages using a calculator
operations with vulgar fractions and negative numbers	Vertical + and - involving decimals	Round decimal fractions
Calculate multiplication terms in an	Multiply TU x TU using grid method	Calculate + and - using negative numbers
expression combining addition and subtraction	Divide HTU/TU by U using grid method	Multiply TU x TU using grid method
		Divide HTU/TU by U using grid method
Read, write and convert between fractions and decimals		
Calculate maths stories for all four operations involving decimal fractions		
Additional National Curriculum guidance:		
Compare and order decimals (up to 2dp)	Multiply HTU x U using grid method	
Identify number of hundredths eg 34.12 12 hundredths	Use distributive law eg 39x7=30x7+9x7	

Geometry

Autumn	Spring	Summer
Draw objects in a mirror line	Use vocabulary for circles accurately	Draw triangles using a compass
Use a protractor to draw angles	Draw shapes using a compass	Measure angles using a protractor
Identify angles	Label axes (positive and negative)	Draw acute and obtuse angles
	Draw shapes on axes	
	Name lines of symmetry	
Additional National Curriculum guidance:		
Compare and order angles	Describe position on a grid as co- ordinates	
	Describe movements as translations	
	Identify regular and irregular polygons	
	Identify lines of symmetry in different orientations	
	Complete a simple symmetric figure	



Data and Measures

Autumn	Spring	Summer
Read metric prefixes for length, mass	Calculate the circumference of circle	Calculate equivalent fractions
and volume Compare metric units	Calculate the area of a rectangle by counting squares	Calculate fractions of quantities using equivalent fractions
Read metric equivalences using decimal point	Calculate the volume of a cuboid by counting cubes	Use ratio to convert measurements
Calculate area and volume	Find the mean	
Additional National Curriculum guidance:		
Measure using a range of units		Recognise equivalent fractions eg $^{6}/_{9}$ =
Convert between units of measure		$\frac{2}{3}$
Measure and calculate perimeter		
Not explicitly covered in maths lessons, but	needs to be taught perhaps in thematic or s	science:
* Read and write analogue and digital time	e (12 and 24 hour)	
* Solve time problems using converting: h	ours to minutes, minutes to seconds, years	to months and weeks to days
* Present discrete and continuous data us	ing graphical methods including bar charts a	and time graphs
* Use a range of scales when presenting a	nd interpreting data	

* Answer comparison, sum and difference between problems about data presented in bar charts, pictograms, tables and graphs

Arithmetic 2

Autumn	Spring	Summer
Multiply TU x TU using grid method	Group & rearrange calculations to solve maths stories (associative law)	Solve percentage word problems
Calculate one step word problems involving all four operations	Solve measure word problems	Solve fraction and percentage word problems involving all four operations
Use a calculator to solve one step measure word problems involving decimals	Solve word problems involving decimal quantities	Round decimals
Additional National Curriculum guidance:		
		Solve two step addition and subtraction word problems



Reasoning

Autumn	Spring	Summer
Read and write numbers up to billions	Mentally x three 1-digit numbers	Identify terms
Read and write powers of 10	Use index notation for powers of 10	Use algebraic expressions
Use known facts to calculate x and ÷ maths stories	Multiply three numbers with a decimal fraction using a calculator	
Recognise factor pairs		
Additional National Curriculum guidance:		
Recognise the place value of each digit		
Derive fact eg 600÷3=200 can be derived from 2x3=6		

Round to the nearest 10 and 100	Recall multiples of 3, 4, 5, 6, 7, 9 and 10	
Recall multiplication and division facts up to 100	Give factors of 1, 5, 7, 9	
Convert m to cm, kg to g and ml to l	Give factors of 12, 15, 16 and 18	
Find 1 more or less than any number (positive and negative)	Find common equivalent fractions	
Convert between decimal and vulgar fractions	Give multiples of 5, 7, 8 and 10	
Convert pence to pound	Give factors of 10, 15, 18, 20, 24 and 25	
Convert time analogue and digital	Convert between decimals and fractions for tenths, hundredths	
Recall multiples of 8, 9 and 10	and thousandths	
Give factors of 4, 10, 12 and 15	Convert between miles and km	
Convert mm to m and pounds to pence		
Additional National Curriculum guidance:		
Count in multiples of 6, 7, 9, 25 and 1000	Recognise and use factor pairs up to 144	
Find 1000 more or less than a given number	Count up and down in hundredths	
Count forwards and backwards (negative numbers)	Recognise and write decimal equivalents to	
Order and compare numbers beyond 1000	Compare and order decimals (up to 2dp)	
Round numbers to the nearest 10, 100 or 1000	Classify triangles: equilateral, isosceles, scalene	
Read Roman numerals to 100	Classify quadrilaterals: parallelogram, rhombus, trapezium	
Recall multiplication and division facts up to 12x12		
Compare amounts of money in pounds and pence (using decimal notation)		



Arithmetic

Autumn	Spring	Summer
Vertical + and - with more than one tricky column	Use fractions as divisions a /b and a ÷ b interchangeably	Divide HTU÷U using grid method Multiply and divide decimals (up to 3dp)
Calculate + - x ÷ maths stories involving	Convert vulgar fractions to finite decimal	by multiples of powers of 10
vulgar fractions and mixed numbers Vertical + and—decimals with more than	Use equivalent fractions in addition and subtraction calculations (bring forward	Use derived products to calculate \boldsymbol{x} and \div
one tricky column	from MMS6 A1 B3)	
Multiply vulgar fractions	Use four operations with positive and negative numbers	
	Multiply TU x TU using grid method	
	Multiply HTU x TU with decimals using grid method	
Additional National Curriculum guidance:		
Identify the value of each digit	Multiply THTU x TU/U	Divide THTU÷U using grid method
Order and compare fractions and decimals	Multiply by 10, 100 and 1000	Divide by 10, 100 and 1000
Recognise and use thousandths		Interpret remainders as fractions, decimals or rounding

Geometry

Autumn	Spring	Summer
Investigate properties of shape and symmetry	Calculate the circumference and area of a circle	Investigate angles of polygons Recognise, name and sketch polygons
Name and draw angles: acute, obtuse, reflex and right	Explore the properties of angles	Identify properties of polygons
Name and calculate vertically opposite and supplementary angles		
Draw angles using a protractor		
Additional National Curriculum guidance:		
Estimate and compare angles Use markings for parallel lines and right		Use properties of rectangles to find missing lengths and angles
angles (Y3 Spring 2)		Distinguish between regular and irregular shapes



Data and Measures

Autumn	Spring	Summer
Solve measure word problems involving all four operations and percentage increase/decrease Investigate 3D shapes Convert metric and imperial units Read scales	Interpret a calendar and timetable Use time durations in calculations and word problems Construct a bar chart Find the mode Draw and interpret distance-time graphs Round measures	Use ratio to convert between units of measure Estimate area of regular and irregular shapes (cm ²) Calculate the perimeter and the area of compound shapes (From MMS6 DM B5 for earlier SATs experience) Calculate time durations Solve time word problems
Additional National Curriculum guidance:		
Explain operations and methods when solving problems Convert between fractions, decimals and percentages	Solve comparison, sum and difference problems about a line graph	Calculate perimeter in cm and m Compare area of shapes using cm ² and m ² Estimate volume and capacity Express missing measures algebraically

Arithmetic 2

Autumn	Spring	Summer
Complete missing number grids and sentences Complete number sequences involving square numbers Solve one and two step word problems Use <≤>≥ Investigate factors and proper factors	Use divisibility tests Investigate factors and proper factors Identify prime numbers (0-100) Write numbers as a product of their prime factors Investigate factors	Evaluate terms and products in expressions including brackets
Additional National Curriculum guidance:		
Find common factors of two numbers Understand term: factor, multiple, square and cube number Use notation (²) and (³)	Use vocabulary: prime number, prime factors, composite (non-prime) number	



Reasoning

Autumn	Spring	Summer
Write and convert times using 24-hour notation	Solve measure and fraction problems by exploring relationships	Carry out investigations involving shape, number and real-life situations
Calculate time duration (24 hour)	Solve one, two and three step money	Use timetables
Solve algebraic equations	problems Solve puzzles by calculating quantities	Calculate durations: difference between, total and mean
		Calculate equivalences and fractions of periods of time
Additional National Curriculum guidance:		
	Solve problems involving decimals	

Add and subtract money	Calculate time durations
Recall multiplication and division facts (up to 12x12)	Find equivalent fractions
Give multiples of all times tables	Order decimal fractions using a number line
Give factors	Convert between fractions, decimals and percentages
Identify value of digits (including decimals)	Round to the nearest 100
Convert times 12 hour to 24 hour	Find the mode and median of a data sample
Convert measures g to kg, I to mI, cm to m, km to m	Multiply and divide by 15 and 20
Convert fractions to decimals	
Additional National Curriculum guidance:	
Read and write numbers to 1 000 000	Round decimals to the nearest whole number
Order numbers to 1 000 000	Order and compare fractions
Compare numbers to 1 000 000	Order and compare decimals
Count forwards or backwards in steps of 100, 1000 and 10000	Mentally add and subtract tenths
Count forwards and backwards (negative numbers) Round numbers to the nearest 10, 100, 1000, 10000, 100000 Count forwards and backwards in decimals and fractions	Add and subtract decimals finding complements of 1 eg
	0.83+0.17
	Recognise and use square roots and square numbers
Mentally add and subtract large numbers eg 12462- 2300=10162	Read Roman numerals to 1000
Recall prime numbers to 19	
Recognise years written in Roman numerals	



Arithmetic

Autumn	Spring	Summer
Multiply HTU x TU using grid method Estimate the value of products by rounding including decimals Divide THTU÷U using grid method Estimate the value of quotients, including decimals, by rounding	Calculate with vulgar fractions using the four operations (using equivalent fractions and improper fractions with tricky examples) From MMS6 A1 B6 Write a vulgar fraction as a decimal fraction to three decimal places, using a calculator for division, eg 7/11 = .636 From MMS6 A1 B6 Convert decimal fractions to vulgar fractions using tenths,	Use the formulae for diameter, circumference and area (not needed for SATs) of a circle Use the formulae for area and volume of cuboid & cylinder; area of a triangle Convert between decimal fractions and vulgar fractions Write recurring infinite decimals in abbreviated forms
	hundredths and thousandths, eg .625 = 625/1000	Calculate all four operations using negative numbers <mark>(moved from MMS6</mark> A1 B4 - not needed for SATs)
Additional National Curriculum guidance:		
Multiply one digit number with 2dp by whole numbers Divide decimal numbers by U	Compare and order fractions When calculating with fractions write answers in its simplest form	Illustrate and name parts of a circle: radius, diameter and circumference Associate a fraction with division
Interpret remainders as whole numbers, fractions or by rounding Identify the value of each digit	Divide proper fractions by whole numbers	

Geometry

Autumn	Spring	Summer
Find the sum of interior and exterior angles of a polygon <i>include triangles</i>	Measure angles Measure length	Calculate the interior, exterior and missing angles
which leads to NC6 objective 'Find missing angles' for SATs also in MMS6 Ge	Draw images and complete shapes using	Calculate the third angle in a triangle.
<u>B3 & B5</u>	lines of reflection	Draw the perpendicular lines
Recognise reflection, translation, enlargement and rotation	Calculate angles in isosceles triangle	Draw the bisector of an angle
Name transformations of shapes	(include missing angles for SATs)	Draw the circum-circle of a triangle
Name transformations of shapes	Sort quadrilaterals	Draw the in-circle of a triangle
	Complete coordinates of shapes	
	Identify and write the order of rotational symmetry	
Additional National Curriculum guidance:		
Draw and translate simple shapes and reflect them in axes	Draw 2D shapes using given dimensions and angles	Find unknown angles: triangles, quadrilaterals and regular polygons
	Recognise, describe and build 3D shapes including making nets	
	Compare and classify geometric shapes	
	Draw and label a pair of axes in all four quadrants	
	Describe positions on the full co-ordinate grid	



Data and Measures

Autumn	Spring	Summer
Solve measuring word problem using	Solve problems involving ratio and	Convert between yards and metres
km, ml, l, g and kg	proportion	Calculate perimeter and area of
Draw a pie chart	Read scales (mass)	compound shapes
	Compare weighing scales	Calculate surface area and volume of
	Construct and interpret frequency	cuboids
	tables, bar charts and pie charts	Solve problems with cuboids
	Plan and carry out a survey using	Understand the golden ratio
	discrete and grouped data	Calculate ratios and use ratios to construct shapes
		Collect, organise, select and present information
Additional National Curriculum guidance:		
Solve problems involving conversion	Compare quantities using the notation	Convert between miles and km
between units	a:b	Know approximate conversions
Solve money problems	Solve problems involving the relative sizes of two quantities	Recognise shapes can have same area
Link percentages of 360° to calculating angles of pie charts		but different perimeter and vice versa
	Convert measurements using decimal notation up to 3dp	Calculate the area of parallelograms and triangles
	Construct line graphs	Estimate and compare volumes: cm ³ , m ³ , mm ³ , km ³

Arithmetic 2

Autumn	Spring	Summer
Multiply HTU x TU using short method	Ratio of quantities	Use algebraic notation for the sum,
Divide HTU x TU using short method with remainders	Write a quantity as a fraction or percentage of the total quantity	difference, product, and quotient of two numbers
Convert between fractions, decimals and percentages	Solve word problems by involving percentage increase/decrease	Find the greatest or smallest sums, difference, products and quotients of two numbers within a possible range
	Solve money problems using all four operations	Calculate products
	Add and subtract squares and cubes of numbers	Solve number puzzles involving algebraic terms
	Calculate products	Identify and divide numbers by their factors
Additional National Curriculum guidance:		
Interpret remainders as whole numbers, fractions or by rounding		Express missing number problems algebraically



Reasoning

Autumn	Spring	Summer
Calculate mean, median, mode and range Express vulgar fractions as percentages <u>Moved from B6 to B2, needed earlier for</u> <u>SATs; aligns with MMS6 A2 B2 perfectly</u>	Interpret a distance-time graph Interpret a temperature-time graph Identify terms and products in expressions Evaluate expressions with and without brackets	Solve linear equations that involve one operation with whole and decimal numbers Measure probability, eg of events- the probability of rolling a 3 on a fair dice numbered 1–6 is 1/6. <i>Moved from B2 to</i> <i>B6 after SATs, not needed to meet NC Y6</i>
Additional National Curriculum guidance:		
	Construct line graphs Explore the order of operations using brackets	Enumerate possibilities of combinations of two variables

Daily Practice

Recall multiplication and division facts (up to 12x12) Multiply by 15 Round numbers to 1dp Write factors and multiples of given numbers Convert between m and km, cm and m, cm and mm, ml and l	Convert between fractions, decimals and percentages Multiply by 25 Multiply and divide pairs of multiples of 10 and 100 Find equivalent fractions Round numbers to 2dp
and g and kg Find a fraction or percentage of whole number Calculate time duration Calculate angles in a triangle	Write a number as product of its prime factor Round numbers to 3dp
Additional National Curriculum guidance:	
Read and write numbers to 10 000 000	Use the four operations mentally
Order numbers to 10 000 000 Compare numbers to 10 000 000 Round numbers with accuracy (nearest 10, 20, 50 etc) Count forwards and backwards (negative numbers)	Identify common factors, common multiples and prime numbers Partition decimals to 3dp Mentally add and subtract negative numbers