

Suggested oral mental starters (ongoing, throughout the term):

- Count forwards and backwards in ones to at least 20 beginning from 0 or 1 or any given number
- Read and write numbers from 1-20 in numerals
- Given a number identify the number that is 1 more or less to at least 20
- Say the number that comes between two numbers to at least 20
- Derive number bonds to ten and related addition and subtraction facts
- Double numbers and quantities/sets of objects to at least 5 + 5; find the corresponding halves
- Count in multiples of two from 0 to 20 forwards and backwards
- Recognise and use language relating to dates including days of the week and months of the year (use daily routines to support this)
- Opportunities for problem solving and reasoning related to all of the above

Area of Study	No of days	Statutory Requirements and non-statutory guidance	Suggested Key Vocabulary
Number		Year R conceptual prerequisite	Number, numeral Zero, one, twoto twenty
Number	3- 5	 Begin to develop a sense of the number system by verbally counting forward to and beyond 20, pausing at each multiple of 10. 	Count One more, one less
		 Play games that involve moving along a numbered track, and understand that larger numbers are further along the track. 	Between Before After
Week 1		 Begin to experience partitioning and combining numbers within 10. Count to at least 20, forwards and backwards from 0 or 1 or any given number 	First, second tenth
		Read and write numbers in numerals to 20 ~ 1, 2, 3 Begin to write numbers in words and match them to corresponding numerals (numbers to	
		ten) ~ one, two, three Identify and represent numbers using objects and pictorial representations including the number track, within 20	
		Given a number, identify the number that is one more or less within 20 Say the number that comes between two numbers within 20	
		Use ordinal numbers in different practical contexts (first, second, third tenth)	

Produced for Southwark Primary Schools by a working party led by Diane Andrews, maths consultant. Updated (September 2020) by Robert Hamilton, maths lead Townsend Primary school.

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Number Number and place value	Given a number Identify the num 5 Compare numb Order numbers Begin to reason	y, read and write numbers beyond 20 in numerals r, identify the number that is 1 more or less to at least 20 aber that comes between two numbers to at least 20 ers to at least 20 to at least 20 about numbers e.g. Sam counts on in ones from eight- 8, 9, 10, 12, 13. Wh n make? How do you know?	One more, one less, before, after, between Biggest/largest, smallest, bigger/larger, smaller
Week 2	Identify and rep and units, base	nise place value in teen numbers using practical resources resent teen numbers using practical apparatus e.g. straws, cubes, ten sticks ten materials, Unifix, Numicon npty box questions using knowledge of place value e.g. 12 = 10 +	Ten, ones /units Number, teen number Empty box
Number	Understa	tual prerequisite and the cardinal value of number words, for example understanding that 'fou o 4 objects.	 +, add, plus, more, put together, altogether, total One more, two more …
Addition	Automat	for up to 5 items. tically show a given number using fingers. and record number stories, using pictures, numbers and symbols (such as	=, equals, is the same as Number sentence
		l interpret mathematical statements involving addition (+) and equals (=) sigr lary related to addition	ns; Empty box Problem, answer
Week 3	Add to 10 (and to combining two g	then beyond 10, crossing the tens boundary), including adding zero, by groups of objects, using practical methods and record using number Written Calculation Policy, 2017 and Mental Calculation Strategies,	
		ord problems, which involve addition to at least ten, using concrete objects presentations to support	
	Solve simple en support	npty box problems e.g. $4 + 3 = []; 6 + [] = 10$, using practical resources to	

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Number		Read, write and interpret mathematical statements involving subtraction (-) and equals (=) signs; use the vocabulary related to subtraction	- , take away, subtract, minus One less, two less etc
Subtraction	5	Subtract numbers from 10 (and then from beyond 10, crossing the tens boundary) including subtracting zero, by taking objects away, using practical methods and record using number sentences (See Written Calculation Policy, 2017 and Mental Calculation Strategies, 2017)	How many are left? =, equals, is the same as Number sentence
Week 4		Solve simple problems, which involve subtraction, using concrete objects and pictorial representations to support Solve simple empty box problems involving subtraction, using practical resources to support e.g. $10 - 6 = \square$; $8 - \square = 7$	Empty box Problem, answer
Geometry		Year R conceptual prerequisite ◆ See, explore and discuss models of common 2D and 3D shapes with varied	Circle, triangle, square, rectangle 2-D shape, flat shape
-		dimensions and presented in different orientations (for example, triangles not always	Side, corner, curved, straight
Properties of shape (2D)	3	presented on their base).	Pattern, repeating pattern
&		 Select, rotate and manipulate shapes for a particular purpose, for example: rotating a cylinder so it can be used to build a tower rotating a puzzle piece 	Bigger/larger, smaller Biggest/largest, smallest Sort, same, different
Position and direction	2	Recognise and name common 2-D shapes and describe their properties (see vocabulary) Recognise 2D shapes in different orientations and sizes	Top, bottom, on top, under, above, below, next to, between, in
Week 5		Sort shapes, practically, according to their properties e.g. using sorting circles	front of, behind First, second, third
		Use known 2D shapes to create pictures; discuss the shapes used to make the picture Recognise simple repeating patterns with known 2-D shapes; use known 2D shapes to create simple repeating patterns Begin to reason about 2-D shapes e.g. what is different about these two shapes?	
		Use the language of position such as top, bottom, on top, under, above, below, next to, between, in front of, behind in practical activities	
		Use terms first, second, third to describe position in practical activities	



		Count to at least 20, forwards and backwards, starting at one or from any number	+, add, plus, more, put together,
Number		Using apparatus, such as Unifix or Numicon, represent and use number bonds and related	altogether, total, count on
	5	addition and subtraction facts to 10, e.g. $6 + 4 = 10$, $4 + 6 = 10$, $10 - 4 = 6$, $10 - 6 = 4$	- , take away, subtract, minus,
Addition and	J	Begin to add by counting on e.g. using a marked number track (to 10 and then beyond10,	count back
Subtraction		crossing the tens boundary)	How many are left? =, equals, is the same as
		Begin to subtract by counting back e.g. using a marked number track (from 10 and then beyond 10, crossing the tens boundary)	=, equals, is the same as
		(See Written Calculation Policy, 2017 and Mental Calculation Strategies, 2017)	
			Number sentence, number bonds Number track
Week 6		Solve simple one step word problems that involve addition and subtraction, using concrete objects, number tracks and pictorial representations	Problem, answer
		Solve problems related to addition e.g. 'Four-pin bowling'	
		(See Mathematical Challenges for all pupils booklet, 2016)	
		Compare length and height of two, then three or more objects, using direct comparison and	Compare, measure, estimate
Measurement		comparative language (see vocabulary)	Long, short, tall, longest, shortest,
Length and	5	Estimate, measure and begin to record the length and height of objects, choosing and using	tallest, longer, shorter, taller
Height		suitable uniform non-standard units e.g. hand spans, cubes, links	
		Solve practical problems involving length and height e.g. Put the teddies in order of height.	Length, height
Week 7		How tall are the teddies? Which teddy is the tallest/shortest? What will you use to measure teddies?	
		Year R conceptual prerequisite	Groups of
Number		Distribute items fairly, for example, put 3 marbles in each bag.	Altogether
Multiplication	5	Recognise when items are distributed unfairly.	
Multiplication	5	Count forwards in twos from 0 to 20	
		Count repeated groups of two in practical contexts and use the vocabulary associated with	
		multiplication (but not the multiplication sign) e.g. pairs of socks, hands	Deine deutete
		Solve practical problems that involve combining groups of two or more, using concrete	Pairs, double
Week 8		objects and pictorial representations	
		Double numbers/sets of objects to 6+ 6 using practical resources such as counters, dice,	
		double dominoes	
		(See Written Calculation Policy, 2017 and Mental Calculation Strategies, 2017)	

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		Count forwards and backwards in twos from 0- 20	Share equally
Number		Share quantities equally between two groups and use the vocabulary associated with division (but not the division sign)	Two groups of
Division &		Solve practical problems involving equal sharing, using objects and pictorial representations	
Fractions	5	Recognise, find and name a half as one of two equal parts of an object or shape	
		Find half of a number/set of objects (within 12) using practical resources ; relate halves to equal sharing	Half (not notation ½ until Y2), halves, half of
		e.g. half of $8 = 4$	Equal parts
Week 9		(See Written Calculation Policy, 2017 and Mental Calculation Strategies, 2017)	
Measurement	_	Use vocabulary related to time; know the days of the week and months of the year; order days of the week and months of the year (also use daily routines to support this) Consider making a class birthday chart/pictogram	Day, month Monday, Tuesday January, February
Time	5	Order a simple sequence of events using language such as before, after, next, first, last	Before, after, next, first, last
		Tell the time to the hour using an analogue clock face; recognise numerals 1-12 on a clock face; recognise the difference between the hour hand and the minute hand	
Week 10		Relate times to events during the day e.g. We start school at 9 o'clock; we have lunch at 12 o'clock	Clock, watch, hour, o'clock, long hand, short hand



Number		Use the vocabulary related to addition Add one-digit numbers, crossing the tens boundary, by counting on e.g. $7 + 5 = 12$	+, add, plus, more, altogether, total, count on
Addition and	3	Use the vocabulary related to subtraction Subtract a one digit number from a teens number by counting back e.g. $13 - 5 = 8$, take away, subtract, minus, count back
subtraction		(See Written Calculation Policy, 2017 and Mental Calculation Strategies, 2017)	How many are left?
&		Solve simple word problems that involve addition/ subtraction using number tracks and	=, equals, is the same as
Measurement		pictorial representations to support	Number sentence Problem, answer
Money		Recognise and know the value of different coins to 20p	Monov, coins
Week 11	2	Solve simple problems in the context of money to 10p (extend to beyond 10p), including in practical contexts e.g. If you buy and, how much do you spend? Which coins could you use to pay for this apple that costs 5p? How much money is in my purse?	Money, coins Penny, pence (p) Cost
Geometry	2	Consolidate recognising and naming common 2-D shapes and describe their properties; recognise 2D shapes in different orientations and sizes	Shape, 2D shape, flat shape Circle, triangle, square, rectangle
Properties of 2D		Use 2D shapes to make repeating patterns; use 2-D shapes to make pictures	Side, corner Biggest/largest, smallest,
shapes	3	Recognise and name common 3-D shapes	bigger/larger, smaller
&	0	Recognise 3D shapes of different sizes Relate 3D shapes to everyday objects	Curved, straight Pattern
Properties of 3D shapes		Sort 3-D shapes according to their properties e.g. shapes that roll/shapes that don't roll Use 3D shapes to make models	3D shape, solid shape Cube, cuboid, cylinder, cone,
Week 12		(possible link to a Christmas theme)	sphere
Additional wee	ke	1	1

Additional weeks

To be used for:

- Assessment, consolidation and responding to AfL
- additional using and applying activities
- Christmas maths activities

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