Reception Maths Yearly Curriculum

(This is to be used alongside the assessment schedule)

A	Reception Autumn 1	N4:
<u>Assessment points</u> <u>Harrow Gate Internal assessment</u>	Interleaving ideas	Misconceptions
Number recognition	 1,2,3 as ordinal numbers and representations Data handling nictograph 	Counting 0 as the first number Saving number names inaccurately
	Data handling- pictograph Shana agusting factures	Saying number names inaccurately
 Shape recognition Rote counting to 10/20 	 Shape, counting features Number bonds 	Saying the correct names but skipping objectsTouching the objects more than once
 Count a pre-set line to 5 	Vocabulary	
 Objects that can't be moved to 5 	Count. How many? Strategy, total, amount, less, fewer,	
 Count 6 from a large pile 	total, equal, cardinal number, numeral, number names	verbally we begin with 0 when counting objects it's
 Count of front a targe pite Count irregular arrangements to 5 	to 10, number bond of, addition, add, subtraction,	1
ELG expectation	subtract.	Understanding 0 as an amount before
Subitise (recognise quantities without counting) up to 5	Stem Sentence	understanding 1,2 and 3.
• Subluse (recognise quantities without counting) up to 5	The cardinal number is that is how many there	
	are.	Counting strategies
Activates will include	I suberise there to be	 Lining objects once they've been selected
Counting to 5 including;	I am using the strategy	• Touching each item as they're counted
Actions, Objects that can and can't be moved and set and as part of a	There are apples, bears bananas etc.	 Moving items as they're counted
larger group, sounds.	and is a number bond of	• Making one strike through items that can't be
Matching numerals to amount up to 5.	Mental and oral starter will include	moved
The cardinal principle up to 5	Verbally count to 10 accurately	• Putting up one finger for every noise or movement
Capacity, ordering three objects according to the terms full, half full half	Number ordering and relationship between numbers	needed to be counted
empty and empty	More and less value	
Less, greater and the same in quantities	Odd and even related to colour on the number line	
Number bonds of numbers;		
1, 2, 3, 4 and 5. The addition and subtraction facts of $1, 2, 3, 4$ and 5.	Representations/ resources	
The addition and subtraction facts of 1, 2, 3,4 and 5 2D shapes including but not exclusive to square, rectangle, triangle, circle, oval, hexagon. Explore the shapes with the terms, corner, edge, curve, straight.		
Do it now activities will include		
Subatising		
Quick shape name		
I'm thinking of a shape (name using clues)	Part-whol	le Model Fewer The same as More
Numeral - show me		
Writing numerals under time pressure Count and match numeral)
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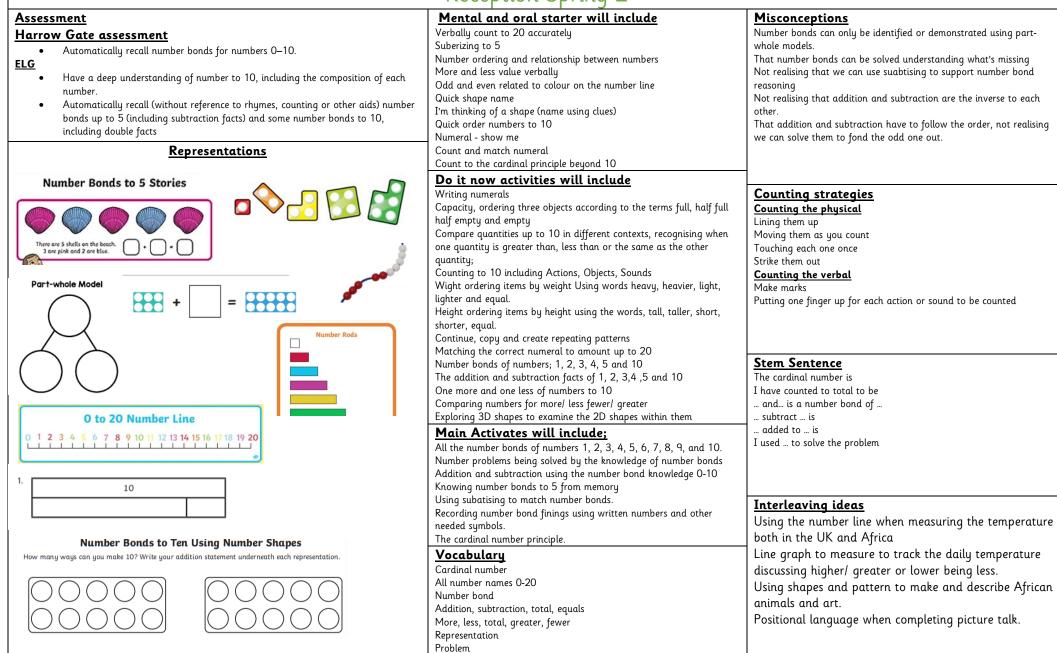
Reception Autumn 2

Reception Autumn 2				
Assessment	Mental and oral starter will include	Misconceptions		
Harrow Gate internal assessment update Verbally count to 20 accurately. The cardinal principle up to 10 Assessment age 4-5 Years Subatise Count objects, actions and sounds. Link the number symbol (numeral) with its cardinal number value. Compare numbers. Understand the 'one more than/one less than' relationship between consecutive numbers. Explore the composition of numbers to 10. Compare length, weight and capacity. Continue, copy and create repeating patterns.	Verbally count to 20 accurately Suberizing to 5 Number ordering and relationship between numbers More and less value Odd and even related to colour on the number line Do it now activities will include Order numbers to 10 Subatising Quick shape name I'm thinking of a shape (name using clues) Numeral - show me Writing numerals under time	Begin counting at 0 for actions, sound etc. and resulting in the answe always being 1 higher. Object counting, disorganised counting touching objects too fast/ slow not in line with number names. Continue counting until the verbal number pattern is complete rather than realising the cardinal value. Not realising that all number bonds can be reversed to make a separate addition/ subtraction fact. Not realise that one more and one less is just the verbal number before or after while counting Fail to add the number line ordering to one more and one less. Counting strategies		
ELG 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; Representations 5 Number of the Day Optimize of the Day Optimize of the Day Optimize of the Day	Count and match numeral Capacity, ordering three objects according to the terms full, half full half empty and empty Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity; Main Activates will include; 1. Counting to 10 including Actions, Objects, Sounds 2. The cardinal principle up to 10	Counting the physicalLining them upMoving them as you countTouching each one onceStrike them outCounting the verbalMake marksPutting one finger up for each action or sound to be counted		
One Less One Less One Less Part-whole Model Image: Constrained and the second and	 The cardinal principle up to 10 Matching the correct numeral to amount up to 10 Wight ordering items by weight using a balance scale, using words heavy, heavier, light, lighter and equal. Number bonds of numbers; 1, 2, 3, 4, 5 and 10 The addition and subtraction facts of 1, 2, 3,4,5 and 10 One more and one less of numbers to 10 Height ordering items by height using the words, tall, taller, short, shorter, equal. Continue, copy and create repeating patterns. Vocabulary Subatise, count, compare, one more/ less, a cardinal number, match, 	Stem Sentence The cardinal number is I have counted to total to be The number to match my amount is I have ordered the weight and have found to be the lightest/ heaviest and is a number bond of One less than is One more than is I have ordered the height and find to be the tallest/ shortest/		
	number bonds, numeral (the number is written down), number name, order, full, half full half empty, empty, tall, taller, short, shorter, equal, capacity, weight, height, patter, repeating	Interleaving ideas Keeping tally of amounts then writing total Counting how long it takes a friend to complete an action while outside (run to the fence) Rote counting in game playing outside Recognising the numerals on a clock- what time is it, Mr Goose. Shapes that can be seen in a stained glass window.		

Reception Spring 1

Reception Spring 1				
Assessment	Mental and oral starter will include	<u>Misconceptions</u>		
4-5 Years	Verbally count to 20 accurately	Begin counting at 0 for actions, sound etc. and resulting in the answer		
Count beyond ten.	Subitising to 5	always being 1 higher.		
Compare numbers.	Number ordering and relationship between numbers	Object counting, disorganised counting touching objects too fast/ slow		
 Select, rotate and manipulate shapes to develop spatial reasoning skills. 	More and less value verbally Odd and even related to colour on the number line	not in line with number names.		
Harrow Gate Assessment		Continue counting until the verbal number pattern is complete rather		
Rote count to 20	Quick shape name	than realising the cardinal value. Not realising that all number bonds can be reversed to make a		
Number rec to 20	I'm thinking of a shape (name using clues)	separate addition/ subtraction fact.		
Count irregular arrangements knowing strategies.	Do it now activities will include Order numbers to 10	Not realise that one more and one less is just the verbal number		
One more verbally	Numeral - show me	before or after while counting		
One less verbally		Fail to add the number line ordering to one more and one less.		
<u>Representations</u>	Writing numerals under time Count and match numeral	Not having the words fewer or greater in their lexicon		
		Not realising that any shape with depth instantly becomes 3D		
	Capacity, ordering three objects according to the terms full, half full half empty	The realising that any shape with depth distanting becomes 5D		
Part-whole Model	and empty Compare quantities up to 10 in different contexts, recognising when one			
	quantity is greater than, less than or the same as the other quantity;	Counting strategies		
	Counting to 10 including Actions, Objects, Sounds	Counting the physical		
	Wight ordering items by weight Using words heavy, heavier, light, lighter and	Lining them up		
	equal.	Moving them as you count		
	Height ordering items by height using the words, tall, taller, short, shorter,	Touching each one once		
	equal.	Strike them out		
	Continue, copy and create repeating patterns.	Counting the verbal		
	Main Activates will include;	Make marks		
	The cardinal principle beyond 10	Putting one finger up for each action or sound to be counted		
	Matching the correct numeral to amount up to 20			
	Number bonds of numbers; 1, 2, 3, 4, 5 and 10	Stem Sentence		
	The addition and subtraction facts of 1, 2, 3,4,5 and 10	The cardinal number is		
	One more and one less of numbers to 10	I have counted to total to be		
	Comparing numbers for more/ less fewer/ greater	The number to match my amount is		
	Ordering numbers to 10	and is a number bond of		
DPPPPPP	Exploring 3D shapes to examine the 2D shapes within them	One less than is		
Repeat This Pattern Number of the Day Number of the Day	Rotating and using 3D shapes to fit a purpose like going through the correct	One more than is		
	shaped hole and making prints.	subtract is		
Fewer The same as More Fewer The same as More	Vocabulary	added to is		
	Cardinal number	My 3D shape is made up of the 2D shapes		
	All number names 0-20	My amount or total is fewer than /greater than		
	Number bond	Interleaving ideas		
	Addition, subtraction, total, equals	Jigsaws with interleaving pieces children have to turn rotate and fit		
0 to 20 Number Line	More, less, total, greater, fewer	using shape and space knowledge.		
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Order	Playdough using cutters to make 3D shapes		
	Square, Circle, Triangle, Rectangle, Oval, Hexagon, Octagon, Pentagon, Cube,	Outside 3D shape fitting into 3D holes		
	Cone, Cuboid, Sphere and Cylinder	Discussing more/ less fewer/ greater same, when discussing the		
	Rotate, straight, fit, turn	temperature in comparison to yesterday's temperature.		
the sound lead				

Reception Spring 2



Solving

Reception Summer 1

Verbally count to 20 accurately

More and less value verbally

Quick order numbers to 10

Count and match numeral

Suberizing to 5

Quick shape name

Numeral - show me

Mental and oral starter will include

Number ordering and relationship between numbers

Odd and even related to colour on the number line

I'm thinking of a shape (name using clues)

Count to the cardinal principle beyond 10

<u>Assessment</u>

Harrow Gate internal assessment update

• Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can.

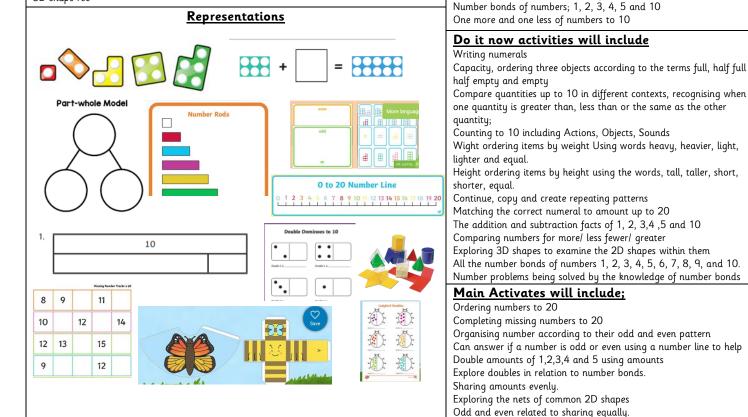
<u>ELG</u>

- Verbally count beyond 20, recognising the pattern of the counting system.
- Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.

Harrow Gate Assessment

Rote count to 30 Order numbers to 20

3D shape rec



Misconceptions

Not applying their knowledge of suabtising, cardinal principle or number bonds to support doubling and halving To not realise that sharing between 2 is halving Not linking sharing an amount between 2 is halving it and you will need an even amount to call a 3D shape by its 2D face-name not using the number line to support ordering missing numbers

Counting strategies

Counting the physical Lining them up Moving them as you count Touching each one once Strike them out Counting the verbal Make marks Putting one finger up for each action or sound to be counted Stem Sentence The number... is odd/ even Double ... is ... Half of ... is ... Double ... as a number bond is....

This 3D shape Is made up of the 2D shapes... I shared the amount... equally, I have found that ... and ... is a number bond of I shared this even amount and found...

<u>Interleaving ideas</u>

Sharing resources equally Deciding if their age is odd or even What double their age is and what half their age is Applying mass, length and height to the insects topic Measuring using standard measurements

Reception Summer 2				
Assessment Harrow Gate internal assessment update • Pre-sent line 20	<u>Representations</u> A collection of all used across the ye	Misconceptions,		
Review and plug any gaps in assessment Move children to use mastery and variation with all the assessment points they have gained.				
Mental and oral starter will include Verbally count to 20 accurately Suberizing to 5 Number ordering and relationship between numbers More and less value verbally Odd and even related to colour on the number line Quick shape name I'm thinking of a shape (name using clues) Quick order numbers to 10 Numeral - show me Count and match numeral Count to the cardinal principle beyond 10 Number bonds of numbers; 1, 2, 3, 4, 5 and 10 One more and one less of numbers to 10 Can answer if a number is odd or even using a number line to help Answer double and half facts.	Writing numerals Capacity, ordering Compare quantities same as the other of Counting to 10 incl Wight ordering iten Height ordering iten Continue, copy and Matching the corree The addition and su Comparing number Exploring 3D shape All the number bon Number problems b Completing missing Organising number Double amounts of Explore doubles in tharing amounts even Exploring the nets of Odd and even relat	Juding Actions, Objects, Sounds ns by weight Using words heavy, heavier, light, lighter and equal. ns by height using the words, tall, taller, short, shorter, equal. I create repeating patterns ct numeral to amount up to 20 ubtraction facts of 1, 2, 3, 4, 5 and 10 s for more/ less fewer/ greater es to examine the 2D shapes within them ds of numbers 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10. being solved by the knowledge of number bonds Ordering numbers to 20 numbers to 20 according to their odd and even pattern 1,2,3,4 and 5 using amounts relation to number bonds S enly. of common 2D shapes eed to sharing equally.		
Counting strategies Counting the physical Lining them up Moving them as you count Touching each one once Strike them out Counting the verbal Make marks Putting one finger up for each action or sound to be counted	using more less, Using capacity, including the w	easurement as the temperature climbs, comparing the numbers to that of Africa		